

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

Form 20-F

(Mark One)

- REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR (g) OF THE SECURITIES EXCHANGE ACT OF 1934
- or
- ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
for the fiscal year ended December 31, 2019
- or
- TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
for the transition period from _____ to _____
- or
- SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
Date of event requiring this shell company report _____
Commission file number 1-16055

PEARSON PLC
(Exact name of Registrant as specified in its charter)

England and Wales
(Jurisdiction of incorporation or organization)
80 Strand
London, England WC2R 0RL
(Address of principal executive offices)
Stephen Jones
Telephone: +44 20 7010 2000
Fax: +44 20 7010 6060
80 Strand
London, England WC2R 0RL

(Name, Telephone, E-mail and/or Facsimile Number and Address of Company Contact Person)

Securities registered or to be registered pursuant to Section 12(b) of the Act:

Title of Class	Trading Symbol	Name of Each Exchange on Which Registered
*Ordinary Shares, 25p par value	PSO	New York Stock Exchange
American Depositary Shares, each Representing One Ordinary Share, 25p per Ordinary Share		New York Stock Exchange

* Not for trading, but only in connection with the registration of American Depositary Shares, pursuant to the requirements of the SEC.

Securities registered or to be registered pursuant to Section 12(g) of the Act:
None

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act:
None

Indicate the number of outstanding shares of each of the issuer's classes of capital or common stock at the close of the period covered by the annual report:

Ordinary Shares, 25p par value 782,098,929

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934. Yes No

Note — Checking the box above will not relieve any registrant required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 from their obligations under those Sections.

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or an emerging growth company. See definition of "accelerated filer", "large accelerated filer" and "emerging growth company", in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer Non-accelerated filer Emerging growth company

If an emerging growth company that prepares its financial statements in accordance with US GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing

US GAAP International financial Reporting Standards as Issued by the International Accounting Standards Board Other

If "Other" has been checked in response to the previous question, indicate by check mark which financial statement item the Registrant has elected to follow: Item 17 Item 18

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act): Yes No

TABLE OF CONTENTS

		<u>Page</u>
	Introduction	3
	Forward-Looking Statements	4
PART I		
Item 1.	Identity of Directors, Senior Management and Advisers	5
Item 2.	Offer Statistics and Expected Timetable	5
Item 3.	Key Information	5
	Selected Consolidated Financial Data	5
	Dividend Information	6
	Risk Factors	7
Item 4.	Information on the Company	15
	Pearson plc	15
	Overview	15
	Recent Developments	15
	The Group's Strategy	16
	Operating Divisions	17
	Operating Cycles	20
	Competition	21
	Intellectual Property	21
	Raw Materials	22
	Government Regulation	22
	Licenses, Patents and Contracts	22
	Legal Proceedings	22
	Organizational Structure	22
	Property, Plant and Equipment	23
	Capital Expenditures	24
Item 4A.	Unresolved Staff Comments	24
Item 5.	Operating and Financial Review and Prospects	24
	General Overview	24
	Results of Operations	30
	Liquidity and Capital Resources	47
	Accounting Policies	50
Item 6.	Directors, Senior Management and Employees	50
	Directors and Senior Management	50
	Compensation of Senior Management	55
	Share Options of Senior Management	63
	Share Ownership of Senior Management	64
	Employee Share Ownership Plans	64
	Board Practices	65
	Employees	66
Item 7.	Major Shareholders and Related Party Transactions	66
Item 8.	Financial Information	67
Item 9.	The Offer and Listing	67
Item 10.	Additional Information	67
	Articles of Association	67
	Material Contracts	73
	Exchange Controls	73
	Tax Considerations	73
	Documents on Display	76

	<u>Page</u>
Item 11. Quantitative and Qualitative Disclosures about Market Risk	76
Introduction	76
Capital Risk	77
Interest and Foreign Exchange Rate Management	77
Liquidity and Re-financing Risk Management	77
Financial Counterparty Risk Management	77
Item 12. Description of Securities Other Than Equity Securities	78
American Depositary Shares	78
Fees paid by ADR holders	78
Fees incurred in past annual period and fees to be paid in the future	78

PART II

Item 13. Defaults, Dividend Arrearages and Delinquencies	80
Item 14. Material Modifications to the Rights of Security Holders and Use of Proceeds	80
Item 15. Controls and Procedures	80
Disclosure Controls and Procedures	80
Management’s Annual Report on Internal Control over Financial Reporting	80
Change in Internal Control over Financial Reporting	80
Item 16A. Audit Committee Financial Expert	80
Item 16B. Code of Ethics	81
Item 16C. Principal Accountant Fees and Services	81
Item 16D. Exemptions from the Listing Standards for Audit Committees	81
Item 16E. Purchases of Equity Securities by the Issuer and Affiliated Purchases	81
Item 16F. Change in Registrant’s Certifying Auditor	82
Item 16G. Corporate Governance	82
Item 16H. Mine Safety Disclosure	82

PART III

Item 17. Financial Statements	83
Item 18. Financial Statements	83
Item 19. Exhibits	83

INTRODUCTION

In this Annual Report on Form 20-F (the “Annual Report”) references to “Pearson”, the “Company” or the “Group” are references to Pearson plc and its consolidated subsidiaries, except as the context otherwise requires. “Ordinary Shares” refer to the ordinary share capital of Pearson of par value 25p each. “ADSs” refer to American Depositary Shares which are Ordinary Shares deposited pursuant to the Second Amended and Restated Deposit Agreement dated August 15, 2014, amended and restated as of August 8, 2000 among Pearson, The Bank of New York Mellon as depositary (the “Depositary”) and owners and holders of ADSs (the “Deposit Agreement”). ADSs are represented by American Depositary Receipts (“ADRs”) delivered by the Depositary under the terms of the Deposit Agreement.

The Group has prepared the financial information contained in this Annual Report in accordance with International Financial Reporting Standards (“IFRS”) and IFRS Interpretations Committee (“IFRS IC”) interpretations as issued by the International Accounting Standards Board (“IASB”) and in conformity with International Financial Reporting Standards as adopted by the European Union (“EU”). Unless otherwise indicated, any reference in this Annual Report to consolidated financial statements is to the consolidated financial statements and the related notes, included elsewhere in this Annual Report.

The Group publishes its consolidated financial statements in sterling. The Group has included, however, references to other currencies. In this Annual Report:

- references to “sterling”, “pounds”, “pence” or “£” are to the lawful currency of the United Kingdom,
- references to “euro” or “€” are to the euro, the lawful currency of the participating Member States in the Third Stage of the European Economic and Monetary Union of the Treaty Establishing the European Commission, and
- references to “US dollars”, “dollars”, “cents” or “\$” are to the lawful currency of the United States.

For convenience and except where specified otherwise, the Group has translated some sterling figures into US dollars at the rate of £1.00 = \$1.33, the noon buying rate in The City of New York for cable transfers and foreign currencies as certified by the Federal Reserve Bank of New York for customs purposes on December 31, 2019. The Group does not make any representation that the amounts of sterling have been, could have been or could be converted into dollars at the rates indicated. On February 29, 2020 the noon buying rate for sterling was £1.00 = \$1.28.

The Group currently consists of its education business and a 25% equity interest in the consumer publishing business Penguin Random House. In December 2019, the Group announced that it would sell this 25% interest to Bertelsmann, the owner of the 75% interest. The sale is expected to be completed in the first half of 2020. See “Item 4. Information on the Company — Overview of operating divisions”. The Pearson plc Consolidated Financial Statements are included in this report on pages F-1 to F-95.

FORWARD-LOOKING STATEMENTS

You should not rely unduly on forward-looking statements in this Annual Report. This Annual Report, including the sections entitled “Item 3. Key Information — Risk Factors”, “Item 4. Information on the Company” and “Item 5. Operating and Financial Review and Prospects”, contains forward-looking statements within the meaning of Section 27A of the U.S. Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), that relate to future events or the Group’s future financial performance. In some cases, you can identify forward-looking statements by terms such as “may”, “will”, “should”, “expect”, “intend”, “plan”, “anticipate”, “believe”, “estimate”, “predict”, “potential”, “continue” or the negative of these terms or other comparable terminology. Examples of these forward-looking statements include, but are not limited to, statements regarding the following:

- operations and prospects,
- growth strategy,
- funding needs and financing resources,
- expected financial position,
- market risk,
- currency risk,
- US federal and state spending patterns,
- debt levels, and
- general market and economic conditions.

These forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause the Group’s or its industry’s actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied by the forward-looking statements. In evaluating them, you should consider various factors, including the risks outlined under “Item 3. Key Information — Risk Factors”, which may cause actual events or industry results to differ materially from those expressed or implied by any forward-looking statement. Although the Group believes that the expectations reflected in the forward-looking statements are reasonable, it cannot guarantee future results, levels of activity, performance or achievements.

PART I

ITEM 1. IDENTITY OF DIRECTORS, SENIOR MANAGEMENT AND ADVISERS

Not applicable.

ITEM 2. OFFER STATISTICS AND EXPECTED TIMETABLE

Not applicable.

ITEM 3. KEY INFORMATION

Selected consolidated financial data

The table below shows selected consolidated financial data under IFRS as issued by the IASB and in conformity with IFRS as adopted by the EU. The selected consolidated income statement data for the years ended December 31, 2019, 2018 and 2017 and the selected consolidated balance sheet data as at December 31, 2019 and 2018 have been derived from the Group's audited consolidated financial statements included in "Item 18. Financial Statements" in this Annual Report.

On October 16, 2015, the Group completed the sale of its 50% stake in The Economist Group. The share of profit after tax from the associate interest in the Economist Group has been included in discontinued operations for the period of 2015 until October 16, 2015.

On November 30, 2015, the Group completed the sale of The Financial Times to Nikkei Inc. The results of The Financial Times have been included in discontinued operations for the 11 months to November 30, 2015.

On October 5, 2017 the Group completed the sale of a 22% share in Penguin Random House to Bertelsmann, retaining a 25% share. The Group accounted for its remaining 25% associate interest in Penguin Random House on an equity basis and following the December announcement of the planned sale of this interest to Bertelsmann presented the investment as held for sale as at December 31, 2019. The sale is expected to be completed in the first half of 2020.

On May 5, 2017, the Group announced that it was undertaking a strategic review of its US K12 courseware business. The US K12 business was classified as held for sale on the Group's balance sheet as at December 31, 2017 and December 31, 2018. On March 29, 2019 the Group completed the sale of its US K12 courseware business to Nexus Capital Management LP resulting in a pre-tax profit on sale of \$13m.

On August 16, 2017 the Group completed the sale of its test preparation business in China, Global English (GEDU), to Puxin Education.

On November 27, 2017 the Group announced that it had agreed to the sale of Wall Street English (WSE) to a consortium consisting of funds affiliated with Baring Private Equity Asia and CITIC Capital. Consequently, WSE was classified as held for sale on the Group's balance sheet as at December 31, 2017. The disposal completed on March 15, 2018.

During 2019 the Group made some small acquisitions for total consideration of \$53m. Details of the assets acquired, and the associated consideration are shown in "Item 18. Financial Statements" in this Annual Report.

The selected consolidated financial information should be read in conjunction with "Item 5. Operating and Financial Review and Prospects" and the Group's consolidated financial statements and the related notes appearing elsewhere in this Annual Report. The information provided below is not necessarily indicative of the results that may be expected from future operations.

For convenience, the Group has translated the 2019 amounts into US dollars at the rate of £1.00 = \$1.33, the noon buying rate in The City of New York for cable transfers and foreign currencies as certified by the Federal Reserve Bank of New York for customs purposes on December 31, 2019.

	Year Ended December 31					
	2019	2019	2018	2017	2016	2015
	\$	£	£	£	£	£
	(In millions, except for per share amounts)					
Consolidated Income Statement data						
Sales	5,146	3,869	4,129	4,513	4,552	4,468
Operating profit/(loss)	366	275	553	451	(2,497)	(404)
Profit/(loss) after taxation from continuing operations	354	266	590	408	(2,335)	(352)
Profit/(loss) for the financial year	354	266	590	408	(2,335)	823
Consolidated Earnings data per share						
Basic earnings/(loss) per equity share(1)	45.2¢	34.0p	75.6p	49.9p	(286.8)p	101.2p
Diluted earnings/(loss) per equity share(2)	45.2¢	34.0p	75.5p	49.9p	(286.8)p	101.2p
Basic earnings/(loss) from continuing operations per equity share(1)	45.2¢	34.0p	75.6p	49.9p	(286.8)p	(43.3)p
Diluted earnings/(loss) from continuing operations per equity share(2)	45.2¢	34.0p	75.5p	49.9p	(286.8)p	(43.3)p
Dividends per ordinary share	25.9¢	19.5p	18.5p	17.0p	52.0p	52.0p
Consolidated Balance Sheet data at period end						
Total assets (non-current assets plus current assets)	10,175	7,650	7,905	7,888	10,066	11,635
Net assets	5,750	4,323	4,525	4,021	4,348	6,418
Long-term obligations(3)	(2,441)	(1,835)	(1,246)	(1,662)	(3,794)	(3,310)
Capital stock	259	195	195	200	205	205
Number of equity shares outstanding (millions of ordinary shares)	782	782	781	802	822	821

Notes:

- (1) Basic earnings per equity share is based on profit for the financial period and the weighted average number of ordinary shares in issue during the period.
- (2) Diluted earnings per equity share is based on diluted earnings for the financial period and the diluted weighted average number of ordinary shares in issue during the period. Diluted earnings comprise earnings adjusted for the tax benefit on the conversion of share options by employees and the weighted average number of ordinary shares adjusted for the dilutive effect of share options. There is no dilution in 2015 and 2016 due to there being a loss from continuing operations.
- (3) Long-term obligations comprise any liabilities with a maturity of more than one year, including medium and long-term borrowings, derivative financial instruments, pension obligations and deferred income tax liabilities.

Dividend information

The Group pays dividends to holders of ordinary shares on dates that are fixed in accordance with the guidelines of the London Stock Exchange. The board of directors normally declares an interim dividend in July or August of each year to be paid in September or October. The board of directors normally recommends a final dividend following the end of the fiscal year to which it relates, to be paid in the following May or June, subject to shareholders' approval at the annual general meeting. At the Group's annual general meeting on April 24, 2020 shareholders will be asked to approve a final dividend of 13.5p per ordinary share for the year ended December 31, 2019.

The table below sets forth the amounts of interim, final and total dividends paid in respect of each fiscal year indicated and is translated into cents per ordinary share at the noon buying rate in The City of New York on each of the respective payment dates for interim and final dividends. The final dividend for the 2019 fiscal year will be paid on May 7, 2020 (subject to shareholder approval).

<u>Fiscal year</u>	<u>Interim</u> (Pence per ordinary share)	<u>Final</u> (Pence per ordinary share)	<u>Total</u> (Pence per ordinary share)	<u>Interim</u> (Cents per ordinary share)	<u>Final</u> (Cents per ordinary share)	<u>Total</u> (Cents per ordinary share)
2019	6.0	13.5	19.5	8.0	18.0*	26.0
2018	5.5	13.0	18.5	7.2	16.9	24.1
2017	5.0	12.0	17.0	6.8	16.2	23.0
2016	18.0	34.0	52.0	23.6	43.8	67.4
2015	18.0	34.0	52.0	27.8	49.0	76.8

* As the 2019 final dividend had not been paid by the filing date, the dividend has been translated into cents using the noon buying rate for sterling as at December 31, 2019.

Future dividends will be dependent on the Group's future earnings, financial condition and cash flow, as well as other factors affecting the Group. The dividend was rebased in 2017 to reflect portfolio changes, increased product investment, and the outlook for 2017.

Risk Factors

You should carefully consider the risk factors described below, as well as the other information included in the rest of this document. The Group's business, financial condition or results from operations could be materially adversely affected by any or all of these risks, or by other risks that it presently cannot identify.

Our business, results of operations and financial condition could be adversely affected by the effects of the global COVID-19 pandemic.

In December 2019, a novel strain of COVID-19 was reported in China. Since then, COVID-19 has spread globally, to include the United Kingdom, United States and other countries where we operate. The spread of COVID-19 has resulted in the World Health Organization (WHO) declaring the outbreak of COVID-19 as a "pandemic," or a worldwide spread of a new disease, on March 11, 2020. Many countries around the world have imposed quarantines and restrictions on travel and large gatherings to slow the spread of the virus and have closed non-essential businesses. We are closely monitoring developments on a day-by-day basis. Our primary focus is on ensuring the safety and well-being of our employees, customers and learners. We have invoked our business resilience plans to help support our customers and maintain our business operations.

As local jurisdictions continue to put restrictions in place, our ability to continue to operate our business may be disrupted for an indefinite period of time. If the COVID-19 outbreak continues to spread, we may need to further limit operations, including due to shutdowns that may be requested or mandated by governmental authorities.

In addition, the spread of COVID-19, which has caused a broad impact globally, may materially affect us economically. While the potential economic impact brought by, and the duration of, COVID-19 may be difficult to assess or predict, a widespread pandemic could result in significant disruption of global financial markets, reducing our ability to access capital, which could in the future negatively affect our liquidity. In addition, a recession or market correction resulting from the spread of COVID-19 could materially affect our business and the value of our common shares.

The global outbreak of COVID-19 continues to rapidly evolve. The extent to which COVID-19 may impact our business and operations will depend on future developments, including the duration of the outbreak, travel

restrictions and social distancing in the United Kingdom, the United States and other countries where we operate, the effectiveness of actions taken by governmental authorities to contain and treat the disease and whether additional countries where we operate are required to move to complete lock-down status. There is a risk that certain countries or regions where we operate may be less effective at containing COVID-19, or it may be more difficult to contain if the outbreak reaches a larger population or broader geography, in which case the risks described herein could be elevated significantly. The ultimate long-term impact of COVID-19 is highly uncertain and cannot be predicted with confidence.

The accelerated pace and scope of our business transformation initiatives increase our risk to execution timelines and to business adoption of change. The risk is that benefits may not be fully realized, costs may increase, or that the Group's business as usual activities are adversely impacted.

Business transformation and change initiatives in support of the Group's strategic goals to accelerate its digital transition and to simplify its business continued throughout 2019. A range of transformation initiatives were successfully completed during the year with further ones identified for completion in H1 2020. The pace and scope of change potentially increases the risk that not all these changes will deliver within anticipated timeframes, and that the costs of these changes may increase. In addition, as a result of the increased pressure of transformational change, business as usual activities may not perform in line with plans or the level of customer service may not meet expectations. In parallel with the business transformation, as the Group responds to the digital revolution and shift from a product to a services business, it will continue to look at opportunities to develop business models and further refine organization structures. Resistance to change could restrict the organization from making the necessary changes to the business model. We maintained strong governance, leadership and control of the transformation program.

Failure to use the Group's data effectively to enhance the quality and scope of current products and services in order to improve learning outcomes could adversely affect the Group's business.

The Group seeks to maximize data to enhance the quality and scope of current products and services in order to improve learning outcomes while managing associated risks. The Group's ability to continue to do so may be subject to factors beyond the Group's control. In addition, the unavailability of timely, complete and accurate data limits informed decision-making and increases the risk of non-compliance with legal, regulatory and reporting requirements. Business change and transformation success is dependent on migration of a significant number of datasets and our inability to effectively accomplish this could adversely affect the Group's results.

Global economy and cyclical market factors may adversely impact the Group's financial performance.

With the continued pressure and uncertainty in the worldwide economies, particularly in light of COVID-19 pandemic, there remains a risk of a weakening in trading conditions, which could adversely impact future financial performance. The effect of continued deterioration or lack of recovery in the global recovery will vary across different businesses and will depend on the depth, length and severity of any economic downturn. The education market can be affected by cyclical factors which, although can have a positive impact for many of the Group's businesses, could for others lead to a reduction in demand for the Group's products and services.

Failure to successfully invest in and deliver the right products and services and respond to competitive threats could result in lower than expected revenues and profits.

A common trend facing all the Group's businesses is the digitization of content and proliferation of distribution channels, either over the internet, or via other electronic means, replacing traditional print formats. The digital migration brings the need for change in product and content distribution, consumers' perception of value and the publisher's position between consumers, retailers and authors.

This is a highly competitive market that is subject to rapid change. The Group faces competitive threats both from large media players and from smaller businesses, online and mobile portals and operators in the digital arena that provide alternative sources of content. Alternative distribution channels, e.g. digital format, the internet, online retailers, growing delivery platforms (e.g., e-readers or tablets), pose both threats and opportunities to traditional publishing business models, potentially impacting both sales volumes and pricing.

Students are seeking cheaper sources of content, e.g. second hand and rental copies, online discounters, file sharing and use of pirated copies. This change in behavior puts downward pressure on textbook prices in major markets, and this could adversely impact the Group's results.

If the Group does not adapt rapidly to these changes, it may lose business to 'faster' and more 'agile' competitors, who increasingly are non-traditional competitors, making their identification all the more difficult. The Group may be required to invest significant resources to further adapt to the changing competitive environment.

Changes in government policy and/or regulations have the potential to affect the Group's business model and/or decisions across all markets.

The Group's educational services and assessment businesses may be adversely affected by changes in government funding resulting from either trends that are beyond the Group's direct control, such as general economic conditions, changes in government educational funding, programs, policy decisions, legislation and/or changes in the procurement process, or the Group's failure to successfully deliver previous contracts.

The results and growth of the Group's US educational services and assessment businesses are dependent on the level of federal and state educational funding, which in turn is dependent on the robustness of state finances and the level of funding allocated to educational programs. State, local and municipal education funding pressures remain, competition from low price and disruptive new business models continues and open source is promoted as a way to keep costs down for customers. The current challenging environment could impact the Group's ability to collect education-related debt.

State and local government leadership changes and resultant shifts in education policy can also affect the funding available for educational expenditure, which include the impact of educational reform. Similarly, changes in the government procurement process for textbooks, learning material and student tests, and vocational training programs can also affect the Group's markets. Political pressure on testing, changes in curricula, delays in the timing of the adoptions and changes in the student testing process can all affect these programs and therefore the size of the market in any given year. There was during 2019, a risk of political instability in the UK arising from the Brexit deal with the EU. As at the date of this Annual report, and with the UK exit completed on 31st January 2020, the immediate risks are lesser, with trade arrangements yet to be decided. There are other examples of wider uncertainty and instability in the rest of the world, particularly in light of the COVID-19 pandemic, which can affect governments education policy and decisions.

There are multiple competing demands for educational funds and there is no guarantee that new courseware or testing or training programs will be funded, or that the Group will win or retain this business.

Failure to comply with antitrust and competition legislation could result in costly legal proceedings and/or adversely impact the Group's reputation.

The Group is subject to global and local antitrust and competition law and although it is committed to conducting business in compliance with local and international laws, there is a risk that management, employees or representatives may act in a way that violates applicable antitrust or competition laws. As a result, there is a risk of litigation and regulatory proceedings in the countries in which the Group operates. These legal proceedings could result in greater scrutiny of the Group's operations in other countries for anti-competitive behavior and, in the worst case, incur a substantial financial cost. This would also have an adverse impact on the Group's reputation.

If the Group does not adequately protect its intellectual property and proprietary rights, its competitive position and results may be adversely affected and its ability to grow limited.

The Group's products and services largely comprise intellectual property delivered through a variety of print and digital media, online software applications and platforms. The Group relies on trademark, patent, copyright and other intellectual property laws to establish and protect its proprietary rights in these products and services. Failure to adequately manage, procure, register or protect intellectual property rights (including trademarks, patents, trade secrets and copyright) in the Group's brands, content and technology, may (1) prevent the Group from enforcing its rights, and (2) enable bad actors to illegally access and duplicate the Group's content (print and digital counterfeit, digital piracy), which will reduce sales and/or erode revenues.

The Group's intellectual property rights (IPR) in brands and content — historically its core assets — are generally well established in key markets. As technology has become an increasingly critical component of the Group's business strategy, it has also been steadily increasing investment in its patent program to expand its protection of high value inventions in the US and key international markets.

Online copying and security circumvention have become increasingly sophisticated and resistant to available countermeasures. Notably, 2018 introduced "digital counterfeit" web sites selling unprotected PDF files of many of Pearson's titles, at scale, using modern and sophisticated ecommerce methods, with a professional and polished look and feel. From an IP perspective, increasing the Group's digital business exposes it to more trademark, copyright and patent infringement risks.

The Group's forward-looking IP strategy also includes plans to continue increasing its global patent footprint in key markets outside the US. However, the Group also conducts business in other countries where its protection efforts have been limited or inconsistent and the extent of effective legal protection for intellectual property rights is uncertain, and this uncertainty could affect future growth. Where the Group has registered or otherwise established its IPR, it cannot guarantee that such rights will provide competitive advantages due to: the challenges and costs of monitoring and enforcement in jurisdictions where competition may be intense; the limited and/or ineffective IPR protection and enforcement mechanisms available to it in many countries; the potential that its IPR may lapse, be invalidated, circumvented, challenged, or abandoned, or that it may otherwise lose the ability to assert its intellectual property rights against others. The loss or diminution in value of these proprietary rights or the Group's intellectual property could have a material adverse effect on the Group's business and financial performance.

A control breakdown or service failure in the Group's school assessment and qualification businesses could result in financial loss and reputational damage.

The Group's professional services and assessment businesses involve complex contractual relationships with both government agencies and commercial customers for the provision of various testing services. The Group's financial results, growth prospects and/or reputation may be adversely affected if these contracts and relationships are poorly managed or face increased competitive pressures.

There are inherent risks associated with the Group's assessment and qualification businesses, both in the US and the UK. A service failure caused by a breakdown in testing and assessment processes could lead to a mis-grading of student tests and/or late delivery of test results to students and their schools. In either event the Group may be subject to legal claims, penalty charges under contracts, non-renewal of contracts and/or the suspension or withdrawal of its accreditation to conduct tests. A late delivery of qualification results could result in a potentially significant regulatory fine in addition to the contractual penalties. It is also possible that such events would result in adverse publicity, which may affect the Group's ability to retain existing contracts and/or obtain new customers.

The Group's investment in inherently riskier emerging markets may deliver returns that are lower than anticipated.

To take advantage of international growth opportunities and to reduce its reliance on the US and UK markets, the Group has invested in a number of emerging markets, some of which are inherently riskier than its traditional markets. Political, regulatory, economic and legal systems in emerging markets may be less predictable than in countries with more developed institutional structures. Political, regulatory, economic, currency, reputational and corporate governance and compliance risks (including fraud, sanctions, bribery and corruption) as well as unmanaged expansion are all factors which could limit returns on investments made in these markets.

Failure to effectively manage risks associated with compliance to global and local anti-bribery and corruption (ABC) legislation could result in costly legal investigations and/or adversely impact the Group's reputation.

Although the Group is committed to conducting business in a legal and ethical manner in compliance with local and international statutory requirements and standards applicable to its business, there is a risk that the Group's management, employees or representatives may take actions that violate applicable laws and regulations prohibiting the making of improper payments for the purposes of obtaining or keeping business, including laws such as the US Foreign Corrupt Practices Act or the UK Bribery Act. Responding to investigations is costly and requires a significant amount of management's time and attention. In addition, investigations may adversely impact the Group's reputation, or lead to litigation and financial impacts.

Failure to generate anticipated revenue growth, synergies and/or cost savings from acquisitions, mergers and other business combinations, could lead to goodwill and intangible asset impairments.

The Group periodically acquires and disposes of businesses to achieve its strategic objectives and will continue to consider both as means to pursue its strategic priorities.

All the Group's businesses depend on Information Technology (IT) systems and technological change. Failure to maintain and support customer facing services, systems, and platforms, including addressing quality issues and execution on time of new products and enhancements, could negatively impact the Group's revenues and reputation.

All the Group's businesses, to a greater or lesser extent, are dependent on information technology. It either provides software and/or internet services to its customers or uses complex IT systems and products to support its business activities, including customer-facing systems, back-office processing and infrastructure. The Group faces several technological risks associated with software product development and service delivery, information technology security (including viruses and cyber-attacks), e-commerce, enterprise resource planning system implementation and upgrades. Although plans and procedures are in place to reduce such risks, from time to time the Group has experienced verifiable attacks on its systems by unauthorized parties. To date, such attacks have not resulted in any material damage, but the Group's businesses could be adversely affected if its systems and infrastructure experience a significant failure or interruption.

From time to time, the Group's business has experienced, and may continue to experience in the future, an unauthorised disclosure of personal information despite best efforts to prevent it. Such an incident, together with a failure to comply with data privacy regulations could result in damage to the customer experience, the Group's reputation and financial loss.

Across its businesses, the Group holds large volumes of personally identifiable information (PII), including that of employees, customers, students and citizens. Any perceived or actual unauthorized disclosure of PII, whether through breach of the Group's network by an unauthorized party, employee theft, misuse or error or otherwise, could harm the Group's reputation, impair its ability to attract and retain its customers, or subject the

Group to claims or litigation arising from damages suffered by individuals, and thereby harm its business and operational results. Failure to adequately protect PII could potentially lead to regulatory penalties, litigation damages, significant remediation costs, reputational damage, cancellation of some existing contracts and difficulty in competing for future business. In addition, the Group could incur significant costs in complying with the relevant laws and regulations regarding the unauthorized disclosure of personal information. Changes to data privacy legislation must also be monitored and acted upon to ensure the Group remains in compliance across different markets.

Failure to prevent or detect a malicious attack on the Group's systems could result in a breach of confidentiality, integrity and/or availability of sensitive information.

Information security and cyber risk is continually evolving and comprises many complex external drivers: increasing customer demand to demonstrate a strong security posture, external compliance requirements, ongoing digital revolution, increasing use of the cloud and increasingly sophisticated attack strategies. Across its businesses, the Group holds large volumes of personally identifiable information including that of employees, customers, students and citizens, and other highly sensitive business critical data such as financial data, internal sensitive information, and intellectual property. Despite its implementation of security measures, individuals, criminal organizations, state sponsored operatives or other threat action may try to gain unauthorized access to the Group's data in order to misappropriate such information for potentially fraudulent or other purposes. A significant breach can result in a devastating impact on the Group's reputation, customer loyalty, and student experience. Inability to prove due diligence can result in severe penalties and loss of business (existing and future).

The Group's reported earnings and cash flows may be adversely affected by changes in its pension costs and funding requirements.

The Group operates a number of pension plans throughout the world, the principal ones being in the UK and the US. The major plans are self-administered with the plans' assets held independently of the Group. Regular valuations, conducted by independent qualified actuaries, are used to determine pension costs and funding requirements. As these assets are invested in the capital markets, which are often volatile, the plans may require additional funding from the Group, which could have an adverse impact on its results.

It is the Group's policy to ensure that each pension plan is adequately funded, over time, to meet its ongoing and future liabilities. The target for the UK defined benefit plan is a self-sufficient level of funding. The Group's earnings and cash flows may be adversely affected by the need to provide additional funding to eliminate pension fund deficits in its defined benefit plans. The Group's greatest exposure relates to the UK defined benefit pension plan, which is valued every three years. Pension fund deficits may arise because of inadequate investment returns, increased member life expectancy, changes in actuarial assumptions and changes in pension regulations, including accounting rules and minimum funding requests.

Although the UK defined benefit plan is significantly de-risked (as it is in surplus with effect from 1 January 2018 as per the latest valuation), the ability to achieve and maintain this standard remains subject to market conditions, meaning that additional funding could still be required from the Group in the future.

Operational disruption to its business, including those caused by third party providers, a major disaster and/or external threats, could restrict the Group's ability to supply products and services to its customers.

Across all its businesses, the Group manages complex operational and logistical arrangements including distribution centers, data centers, and educational and office facilities, as well as relationships with third party print sites. It has also outsourced some support functions, including information technology, warehousing and logistics to third party providers. The failure of third parties to whom it has outsourced business functions could adversely affect its reputation or financial condition. Failure to recover from a major disaster, (e.g. fire, flood,

etc.) at a key facility or the disruption of supply from a key third party vendor or partner (e.g. due to bankruptcy) could restrict the Group's ability to service its customers and meet the terms of its contractual relationships with both government agencies and commercial customers. Penalty clauses and/or the failure to retain these contracts at the end of the contract term could adversely impact future revenue growth.

A significant deterioration in the Group's profitability and/or cash flow caused by prolonged economic instability could reduce its liquidity and/or impair its financial ratios and trigger a need to raise additional funds from the capital markets and/or renegotiate its banking covenants.

To the extent that worldwide economic conditions materially deteriorate, as a result of the COVID-19 pandemic or otherwise the Group's revenues, profitability and cash flows could be significantly reduced as customers would be unable to purchase products and services in the expected quantities and/or pay for them within normal agreed terms.

Disruption in capital markets or potential concerns about the Group's credit, such as downgrades or negative outlooks by the credit rating agencies, may mean that this capital may not be available on favorable terms or may not be available at all.

The Group generates a substantial proportion of its revenue in foreign currencies, particularly the US dollar, and foreign exchange rate fluctuations could adversely affect the Group's earnings and the strength of its balance sheet.

As with any international business, the Group's earnings can be materially affected by exchange rate movements. The main exposure is to movements in the US dollar to sterling exchange rate as approximately 60% of the Group's total revenue is generated in US dollars. The Group also has exposure to a range of other international currencies including emerging market currencies. Operating profit for 2019, translated at 2018 average rates, would have been £15m or 5% lower.

A lack of sufficient capital resources could adversely impact the Group's ability to operate.

If the global economy weakens further and/or the global financial markets collapse, as a result of COVID-19 pandemic or otherwise, the Group may not have access to or could lose its bank deposits or suffer a significant increase in customer bad debts. Lack of sufficient capital resources could significantly limit the Group's ability to take advantage of business and strategic opportunities. If replacement funds are not available, the Group may be required to delay, reduce the scope of, or eliminate material parts of its business strategy, including potential additional acquisitions or development of new products, services and technologies.

Changes in tax law or perceptions on tax planning strategies may lead to higher effective tax rate or negative reputational impact.

Changes in corporate tax rates and/or other relevant tax laws in the UK, US or other jurisdictions could have a material impact on the Group's future reported tax rate and/or its future tax payments. The Group has been subject to audit by tax authorities. Although the Group believes its tax provision is reasonable, the final determination of its tax liability could be materially different from its historical income tax provisions, which could have a material effect on the Group's financial position, results of operations or cash flows.

The Group's tax strategy reflects its business strategy and the locations and financing needs of its operations. In common with many companies, the Group seeks to manage its tax affairs to protect value for its shareholders, in line with its broader fiduciary duties. The Group is committed to complying with all statutory obligations, to undertake full disclosure to tax authorities and to follow agreed policies and procedures with regard to tax planning and strategy.

If the Group fails to attract, retain and develop appropriately skilled employees, it may limit its ability to achieve its strategic and operational goals and its business may be harmed.

The Group's success depends on the skill, experience and engagement of its employees. If it is unable to attract, retain and develop sufficiently experienced and capable staff, especially in technology, product development, sales and leadership, its business and financial results may suffer. When talented employees leave, the Group may have difficulty replacing those skills, and its business may suffer. There can be no assurance that the Group will be able to successfully retain and attract the skills that it needs.

Failure to adequately protect learners could result in significant harm to one or more learners.

Incidents may occur where learners are abused or harassed. For example, where the Group has direct learner contact via online learning, or in its direct delivery businesses where it is operating, either directly or in a third party partnership. These incidents can cause harm to learners, which is something the Group takes extremely seriously, and could also have a negative financial, legal and reputational impact to the business.

Failure to adequately protect the health, safety and well-being of the Group's employees, learners and other stakeholders could adversely impact the Group's reputation, profitability and future growth.

Although the Group has invested in global Health and Safety procedures and controls to safeguard the health, safety and wellbeing of its employees and other stakeholders, accidents or incidents could still occur due to unforeseen risks, causing injury or harm to individuals and impacting the Group's business operations. The effects of the COVID-19 pandemic may exacerbate the risk. This has the potential to lead to criminal and civil litigation, business disruption leading to operational loss, reduction in profitability and impact on the Group's global reputation.

Failure to ensure security for the Group's staff, learners, assets and reputation, due to increasing numbers of and variety of local and global threats.

Pearson is a global business with locations in diverse, sometimes high-risk, locations worldwide. Although it has protective measures in place to secure its staff, learners and assets, the Group could still be impacted by external threats, such as localized incidents, terrorist attacks, strikes or extreme weather. Future occurrences could cause harm to individuals and/or disrupt business operations. These have the potential to lead to operational loss, a reduction in profitability and impact on the Group's global reputation.

Environmental, social and governance risks may also adversely impact the Group's business.

The Group considers environmental, social and governance (ESG) risks no differently to the way it manages any other business risk. These include ethical business behavior, compliance with UN Global Compact standards, environmental impact, people and editorial standards. A failure to comply with such standards would adversely affect the Group's reputation and have a negative impact on its relations with employees, vendors and customers.

The Group's business depends on a strong brand, and any failure to maintain, protect and enhance its brand would hurt its ability to retain or expand its business.

Protecting the Pearson brand is critical to expanding the Group's business and will depend largely on its ability to maintain its customers' trust in its solutions and in the quality and integrity of its products and services. If the Group does not successfully maintain a strong brand, its business could be harmed. Beyond protection, strengthening the Pearson brand will enable the Group to more effectively engage governments, administrators, teachers, learners and influencers more effectively.

ITEM 4. INFORMATION ON THE COMPANY

Pearson plc

Pearson plc, (Pearson or the Group) is an international education company with its principal operations in the education and consumer publishing markets. The Group delivers content, assessment and services, powered by technology, in order to drive personalized learning at scale. The Group creates and manages intellectual property, which it promotes and sells to its customers under well-known brand names. The Group delivers its content in a variety of forms and through a variety of channels, including books and online services. The Group offers services as well as content, from test creation, administration and processing to teacher development and school software. Though it operates in more than 70 countries around the world, today its largest markets are North America (65% of sales) and Europe (16% of sales).

Pearson was incorporated and registered in 1897 under the laws of England and Wales as a limited company and re-registered under the UK Companies Act as a public limited company in 1981. The Group conducts its operations primarily through its subsidiaries and other affiliates. Its principal executive offices are located at 80 Strand, London WC2R 0RL, United Kingdom (telephone: +44 20 7010 2000) and its website address is www.pearson.com

Overview

The Group consists of its worldwide education business plus a 25% interest in Penguin Random House.

The Group is a leading provider of educational materials and learning technologies. It provides test development, processing and scoring services to governments, educational institutions, corporations and professional bodies around the world. It publishes across the curriculum and provides a range of education services including teacher development, educational software and system-wide solutions, and also owns and operates colleges and schools.

The Group is run as one global education company, organized around three geographical operating segments (North America, Core and Growth). Within each segment, the Group provides content, assessment and digital services to schools, colleges and universities, as well as professional and vocational education to learners.

The Group owns a 25% interest in Penguin Random House, which was formed on July 1, 2013, upon the completion of an agreement between Pearson and Bertelsmann to merge their respective publishing companies, Penguin and Random House. Pearson originally owned a 47% stake in Penguin Random House but sold 22% to Bertelsmann on October 5, 2017. In December 2019, the Group announced the sale of its remaining 25% interest to Bertelsmann in a transaction expected to close in the first half of 2020. Following this announcement the Group has accounted for its interest in Penguin Random House as held for sale.

Recent developments

In January 2020, the Group commenced £350m a share buyback program in connection with the announcement in December 2019 of the sale of its remaining 25% interest in Penguin Random House. On 23 March 2020, in response to the uncertainty surrounding the impact of the COVID-19 pandemic, the Group announced it was prudent to pause this share buyback program. At this date the Group had completed the buyback of £167m of shares.

On 23 March 2020, the Group announced an update to its guidance for 2020 to consider the impact of the COVID-19 pandemic on Pearson's businesses. The update outlined the impact on trading in 2020 and documented some of the uncertainties for the business. The Group does not believe that any of the impacts constitute an adjusting post balance sheet event for the purposes of the 2019 financial statements. The Group includes reference to critical accounting assumptions and judgements in note 1a within Item 18 — Financial

Statements. The potential impact of the COVID-19 pandemic on the business is highly uncertain and cannot be predicted with confidence but may cause the Group, in 2020, to reassess some of the areas requiring a higher degree of judgement or complexity or areas where assumptions and estimates are significant to the financial statements. These areas include the assessment of goodwill for impairment, as set out in note 11 within Item 18 — Financial Statements, where the Group has noted that a number of its cash generating units (CGUs) are sensitive to reasonably possible changes in key assumptions. It is highlighted that a relatively small reduction in contribution, that could arise from longer-term disruption caused by the COVID-19, may result in an impairment charge in any of these CGUs. Other areas where assumptions and estimates are significant include the valuation of pre-publication assets, tax balances, provisions for returns and pension assets and liabilities. The assumptions and estimates relating to these areas could change as the impact of COVID-19 becomes clearer although currently they are not expected to have a material impact on the income statement.

The Group's strategy

The Group's mission is to help people make progress in their lives through learning and its vision is to have a direct relationship with millions of lifelong learners, to link education to the way people aspire to live and work every day and to collaborate with a wide group of partners to help shape the future of learning. To deliver on this, the Group has three key strategic priorities:

- Grow market share through the digital transformation of the Group's courseware and assessment businesses;
- Invest in structural growth opportunities; and
- Become a simpler, more efficient and more sustainable business.

The Group strives to leverage its core strengths in combining world-class content and assessment, powered by services and technology, to enable more effective teaching and personalized learning at scale. More detail on the three areas of focus is set out below.

Grow market share through digital transformation of the Group's courseware and assessment businesses

Digitization enables us to drive improvements in learning outcomes. It allows the Group to build a more sustainable and profitable business with a more visible and predictable revenue profile, based around access not ownership models. The businesses where digital transformation is the key focus are:

- Higher Education Courseware — the Group's course content and digital resources help educators gain better insights on their students and unlock learners' potential. The Group increasingly sells directly to consumers and to educational institutions enabling the business to become more predictable. The shift to digital means students can come to class better prepared from day one. This helps drive better learning experiences and outcomes.
- US Assessment — The Group partners with US educators and states to develop new, personalized ways of learning through effective, scalable assessments that measure 21st century skills and inform instruction for all learners.
- UK Assessment & Qualifications — In the UK, Pearson is a market leading organization offering academic qualifications including GCSEs and A Levels. The Group is driving the adoption of artificial intelligence (AI) in assessment to support better learning.

Invest in structural growth opportunities

Investment in fast growing areas that will be the long-term growth drivers of Pearson, such as:

- Online Program Management (OPM) — Pearson helps higher education institutions launch or expand online degrees, enabling them to increase enrolments, support online learning, boost graduation rates and deliver on employability.

- Virtual Schools — Pearson delivers K12 online education to schools and students across the US and the world. Solutions include the accredited Connections Academy, an online school program which is delivered via full time, online public schools. This is an option for families seeking personalized learning and a high-quality alternative to the traditional classroom. A global online private school, International Connections Academy, is also available.
- Professional Certification — Pearson helps organizations measure and make improvements to ensure the success of employees and learners, helping support lifelong learning. Test owners and test takers across the world choose us to help develop, manage, deliver and grow their computer-based testing programs. With some of the industry's most secure testing environments, Pearson is a leader in computer-based testing.
- English Language Learning — Pearson English language teaching develops courses, qualifications and learning tools to make teaching English easier. Pearson's fast-growing test, Pearson Test of English Academic (PTEA), is a leading computer-based test of English for study abroad and immigration.

Become a simpler and more efficient company

This third strategic priority involves further simplification through shared service centers, leaner organizations through reduction in headcount and a reduction in the number of legacy applications, data centers and office locations. This does not just cut costs, it also provides an important platform for future growth because it enables the Group to reallocate investment to its growth areas more quickly, innovate at scale, and build a more direct, longer term relationship with the tens of millions of learners who use Pearson products each year.

Operating divisions

Pearson is one of the leading providers of educational courseware, assessment and digital services. The Group provides test development, processing and scoring services to governments, educational institutions, corporations and professional bodies around the world. The Group publishes across the curriculum and provides a range of education services including teacher development, educational software and system-wide solutions.

The Group's primary segments for management and reporting are geographical as follows: North America, comprising the courseware, assessment and services businesses in the US and Canada; Core, comprising the courseware, assessment and services businesses in more mature markets outside North America, including the UK, Australia and Italy; and Growth, comprising the courseware, assessment and services businesses in emerging markets, including Brazil, China, India and South Africa. In addition, the Group separately reports on an equity basis the results from its 25% interest in Penguin Random House (PRH), which has been accounted for as an asset held for sale following the December 2019 announcement of the Group's sale of this interest.

North America Segment

The North American business serves educators and students in the US and Canada from early education through elementary, middle and high schools and into higher education and beyond with a wide range of products and services: courseware including curriculum textbooks and other learning materials; assessments including test development and scoring; and services including the provision of online learning services. The Group has a leading position in each of these areas and a distinctive strategy of connecting those parts to support institutions and personalize learning. Across the US the business works with states, schools and colleges to help make education more effective, accessible and affordable for a diverse community of learners.

The North America Higher Education business offers learning services for students, instructors and institutions in the US. It provides learning tools and technologies. Custom content and curriculum solutions offer educators the opportunity to tailor their programs based on the needs of students. The business also offers workforce education products and flexible workforce development solutions to fill the growing skills gap and increased demand for quality certification prep training.

US Higher Education Courseware digital registrations including eBooks are more than 10 million. The use of these digital homeworking platforms and integrated digital courseware provides a wealth of data and analytics to improve the performance of individual students. The business's advanced capabilities in data, analytics and adaptive learning, and its leading efficacy research, enable it to design a smart learning path for every student.

The demand for online learning is steadily rising and management see this area as one of the fastest growing parts of the market with demand expected to increase significantly over the next few years both in school and higher education.

In higher education, Pearson Online Services provides Online Program Management (OPM) services to institutions including Arizona State University, Rutgers University and Maryville University, partnering with them to provide fully online undergraduate and graduate degree courses.

The North America school business offers early learning solutions that help educators and families teach fundamental math and literacy skills; elementary and secondary imprints publish school programs in reading, literature, math, science, and social studies; and digital instructional solutions for pre K-12, such as enVisionMATH and Miller-Levine Biology. In order to focus on its digital strategy, on March 29, 2019 the Group completed the sale of its US K12 courseware business.

The Connections Academy business provides school management services and operates virtual and blended schools, serving around 76,000 full time equivalent students.

School testing plays an integral role in determining educator and student success and the business is one of the largest providers of educational assessment services in the US. It marks large-scale school examinations for the US federal government and more than 23 American states, scoring billions of machine-scorable test questions and evaluating approximately 109 million essays, portfolios and open-ended test questions every year. Working with educators and education advocates, the business experts help to lead the development of Next-Generation Assessments that feature technology-enhanced items, performance-based assessments, and adaptive learning to foster problem-solvers and critical thinkers ready to compete in the global economy.

The clinical assessment businesses' solutions include learning assessments to help gauge how students learn, talent assessments to help growing companies develop their workforce, and clinical assessments to help psychologists and speech/ language/ hearing/occupational and physical therapists diagnose and monitor patients.

The professional certification business, Pearson VUE (VUE), is a leading provider of electronic testing for regulatory and certification boards, providing a full suite of services from test development to test delivery and data management. Pearson VUE offers exams through an extensive network of over 20,000 test centers across the globe, delivering the NCLEX exam for the National Council of State Boards of Nursing, the GMAT for the Graduate Management Admissions Council and numerous IT exams such as Cisco, Microsoft, Amazon and CompTIA.

Pearson VUE also includes Certiport, the world-leader in IT performance-based exams delivered through a global network of academic test centers, and GED Testing Service, a joint venture with the American Council on Education to deliver a leading high school equivalency exam.

See "Item 5. Operating and Financial Review and Prospects — Results of Operations — Year ended December 31, 2019 compared to year ended December 31, 2018 — Sales and operating profit by division — North America" for a discussion of developments during 2019 with respect to this segment.

Core Segment

Core markets operate across the UK, Europe, Asia Pacific and North / Sub Saharan Africa. These are markets where the business works closely with educators and policy makers to improve learning through creating curriculum, designing assessments and developing digital learning systems.

Pearson is the UK's largest awarding organization, offering academic and vocational qualifications that are globally recognized and benchmarked, with educational excellence rooted in names like Edexcel and BTEC. Learners take the business's qualifications in many countries worldwide. Online marking technology is used to mark most examination papers and the ResultsPlus service provides detailed analysis of every learner's examination results. Innovation is also being driven through digital products such as ActiveLearn, and through supporting skills for employability for progression in study, work and life.

The Higher Education business has seen good growth in Online Program Management in both Australia and the UK, having degree programs with Monash and Griffith Universities in Australia and Kings College London, University of Leeds and Manchester Metropolitan University in the UK.

In English, the *Pearson Test of English* supports visa applications to the Australian Department of Immigration and Border Protection resulting in significant growth in market share.

In the UK, the professional certification business, Pearson VUE, works with professional and government bodies including the Driving and Vehicle Standards Agency (DVSA), Chartered Institute of Management Accountants (CIMA) and the Construction Industry Training Board (CITB).

See "Item 5. Operating and Financial Review and Prospects — Results of Operations — Year ended December 31, 2019 compared to year ended December 31, 2018 — Sales and operating profit by division — Core" for a discussion of developments during 2019 with respect to this segment.

Growth Segment

The business takes educational products and services and applies them at scale in regions such as Brazil, India, South Africa, Hispano-America, China and the Middle East. The main product segments for the Growth regions are English and schools.

English language teaching and learning is one of the biggest opportunities in global education. The Group has refocused its activities in English, with disposals of its Chinese direct delivery businesses, GEDU and Wall Street English, taking place in 2017 and 2018 respectively. The opportunity in English is now addressed in three main ways:

- Pearson ELT courseware (institutional English language courses) is a significant player in the global English market, with products such as MyEnglish Lab;
- *Pearson Test of English Academic*, a computer-based test of English for study abroad and immigration;
- the Brazilian adult English language school franchises including Wizard.

The Brazilian business serves primary and secondary education with its 'sistemas' or learning systems which include COC, Dom Bosco and NAME.

In South Africa, the business is one of the largest players in the school textbook market.

See "Item 5. Operating and Financial Review and Prospects — Results of Operations — Year Ended December 31, 2019 compared to year ended December 31, 2018 — Sales and operating profit by division — Growth" for a discussion of developments during 2018 with respect to this segment.

Penguin Random House

On July 1, 2013 Penguin Random House was formed, upon the completion of an agreement between Pearson and Bertelsmann to merge their respective publishing companies, Penguin and Random House, with the parent companies owning 47% and 53% respectively. The Group completed the sale of 22% of Penguin Random House to Bertelsmann on October 5, 2017. The Group used the proceeds from this transaction to maintain a strong balance sheet; invest in its business; and return excess capital to shareholders, whilst retaining an investment grade credit rating. The Group announced the sale of its remaining 25% stake in Penguin Random House to Bertelsmann in December 2019, accounting for the investment as held for sale. The transaction is expected to complete in H1 2020.

Penguin Random House comprises the adult and children's fiction and nonfiction print and digital book publishing businesses of Penguin and Random House in the US, UK, Canada, Australia, New Zealand and India, Penguin's publishing activity in Asia and South Africa, as well as Dorling Kindersley worldwide, and Random House's companies in Spain, Mexico, Argentina, Uruguay, Columbia and Chile.

Penguin Random House sells directly to bookshops and through wholesalers. Retail bookshops normally maintain relationships with both publishers and wholesalers and use the channel that best serves the specific requirements of an order. It also sells through online retailers such as Amazon.com, as well as its own websites and direct to the customer via digital sales agents.

In 2019, the Group's share of Penguin Random House profit after tax was £51m.

See "Item 5. Operating and Financial Review and Prospects — Results of Operations — Year ended December 31, 2019 compared to year ended December 31, 2018 — Sales and operating profit by division — Penguin Random House" for a discussion of developments during 2019 with respect to Penguin Random House.

Operating cycles

The Group determines a normal operating cycle separately for each entity/cash generating unit with distinct economic characteristics. The "normal operating cycle" for each of the Group's education businesses is primarily based on the expected period over which the educational programs and titles will generate cash flows, and also takes account of the time it takes to produce the educational programs. The operating cycles for the courseware markets are typically longer than one year as described below.

Particularly for the North American businesses, there are well established cycles operating in the courseware market:

- The School courseware market is primarily driven by an adoption cycle in which major state education boards 'adopt' programs and provide funding to schools for the purchase of these programs. There is an established and published adoption cycle with new adoptions taking place on average every 5 years for a particular subject. Once adopted, a program will typically sell over the course of the subsequent 5 years. The Company renews its pre-publication assets to meet the market adoption cycles. Therefore, the operating cycle naturally follows the market cycle. Since the sale of the Group's US K12 business, which completed in March 2019, the school operating cycle in North America has become less important than in previous years.
- The Higher Education courseware market has historically had a similar pattern, with colleges and professors typically refreshing their courses and selecting revised programs on a regular basis, often in line with the release of new editions or new technology offerings. The Company renews its pre-publication assets to meet the typical demand for new editions of, or revisions to, educational programs. Analysis of historical data shows that the typical life cycle of Higher Education content is up to 5 years but increasingly the Group's strategy of increasing the focus on digital product is likely to mean shorter cycles with content being refreshed more regularly with smaller updates than would be the case for physical product. In addition to content the Group also develops technology platforms for products and the life cycle for these platforms can be in excess of the 5 years cycle for content. Again, the operating cycle for content and platforms mirrors the market cycle.

Historically a development phase of typically 12 to 18 months for Higher Education and up to 24 months for School precedes the period during which the Company receives and delivers against orders for the products it has developed for the program.

The Core and Growth courseware markets operate in a similar way although often with less formal 'adoption' processes.

The operating cycles in respect of the Group's professional content are more specialized in nature as they relate to educational or heavy reference products released into smaller markets (e.g. the financial training and IT sectors). Nevertheless, in these markets, there is still a regular cycle of product renewal, in line with demand which management monitor. Typically, the life cycle is 5 years for Professional content. Elsewhere in the Group, operating cycles are typically less than one year.

Competition

The Group's businesses operate in highly competitive environments.

The Group competes with other publishers and creators of educational materials and services. These companies include publishers such as Cengage Learning, McGraw-Hill Education and Houghton Mifflin Harcourt.

In services, the Group competes with companies such as K-12 Inc in virtual schools and 2U Inc. in online program management, alongside smaller niche players that specialize in a particular academic discipline or focus on a learning technology.

In US assessment, the Group competes with other companies offering test development and administration including Educational Testing Service (ETS), American Institute for Research (AIR), Measured Progress Inc, and others. The Professional Certification business competes with Prometric globally and a number of other smaller players in local markets.

In Core student assessment, the UK qualifications business competes with AQA and OCR in general qualifications and a number of smaller players in vocational qualifications.

In English language teaching (ELT) courseware, the Group competes with Oxford University Press, Macmillan and other publishers. In English language testing Pearson Test of English Academic competes with alternative tests including IELTS and TOEFL.

Competition is based on the ability to deliver quality products and services that address the specified curriculum needs and appeal to the student, organizations, school boards, educators and government officials making purchasing decisions.

Intellectual property

The Group's principal intellectual property assets consist of its:

- trademarks and other rights via its brands (including corporate and business unit brands, imprints, as well as product and service brands);
- copyrights for its textbook and related educational content and software code; and
- patents and trade secrets related to the innovative methods deployed in its key technologies.

The Group believes it has taken all reasonable legal steps to protect its key brands in its major markets and copyright in its content and has taken appropriate steps to develop a comprehensive patent program to ensure appropriate protection of emerging inventions that are critical to its new business strategies.

Raw materials

Paper remains the principal raw material used by the Group. The Group purchases most of its paper through its global outsourcing partner LSC Communications located in the United States. The Group has not experienced and does not anticipate difficulty in obtaining adequate supplies of paper for its operations, with sourcing available from numerous suppliers. While local prices fluctuate depending upon local market conditions, the Group has not experienced extensive volatility in fulfilling paper requirements. In the event of a sharp increase in paper prices, the Group has a number of alternatives to minimize the impact on its operating margins, including modifying the grades of paper used in production.

Government regulation

The manufacture of certain products in various markets is subject to governmental regulation relating to the discharge of materials into the environment. Operations are also subject to the risks and uncertainties attendant to doing business in numerous countries. Some of the countries in which the Group conducts these operations maintain controls on the repatriation of earnings and capital and restrict the means available for hedging potential currency fluctuation risks. The operations that are affected by these controls, however, are not material. Accordingly, these controls have not significantly affected the Group's international operations. Regulatory authorities may have enforcement powers that could have an impact. The Group believes, however, that in light of the nature of its business the risk of these sanctions does not represent a material threat.

Licenses, patents and contracts

The Group is not dependent upon any particular licenses, patents or new manufacturing processes that are material to its business or profitability. Likewise, it is not materially dependent upon any particular contracts with suppliers or customers, including contracts of an industrial, commercial or financial nature. Notwithstanding the foregoing, the Group's education business is dependent upon licensed rights since most textbooks and digital learning tools include content and/or software that is licensed to it by third parties (or assigned subject to royalty arrangements). In addition, some software products in various business lines, particularly those of its Clinical business, rely upon patents licensed from third parties.

Legal proceedings

The Group and its subsidiaries are from time to time the subject of legal proceedings incidental to the nature of its and their operations. These may include private litigation or arbitrations, governmental proceedings and investigations by regulatory bodies. The Group does not currently expect that the outcome of pending proceedings or investigations, either individually or in aggregate, will have a significant effect on its financial position or profitability nor have any such proceedings had such effect in the recent past. The Group is not aware of material proceedings in which any member of senior management or any of its affiliates is a party adverse to it or any of its subsidiaries or in respect of which any of those persons has a material interest adverse to it or any of its subsidiaries.

Organizational structure

Pearson plc is a holding company which conducts its business primarily through subsidiaries and other affiliates throughout the world. Below is a list of its significant subsidiaries and associates as at December 31, 2019, including name, country of incorporation or residence, proportion of ownership interest and, if different, proportion of voting power held.

<u>Name</u>	<u>Country of incorporation/residence</u>	<u>Percentage interest/voting power</u>
Pearson Education Inc.	United States (Delaware)	100%
Pearson Education Ltd.	England and Wales	100%
NCS Pearson Inc.	United States (Minnesota)	100%
Penguin Random House LLC	United States (Delaware)	25%
Penguin Random House Ltd.	England and Wales	25%

On October 16, 2015, the Group completed the sale of its 50% stake in The Economist Group. The share of profit after tax from the associate interest in the Economist Group has been included in discontinued operations for the period of 2015 until October 16, 2015.

On November 30, 2015, the Group completed the sale of The Financial Times to Nikkei Inc. The results of The Financial Times have been included in discontinued operations for the 11 months to November 30, 2015.

In October 2017, the Group disposed of 22% of PRH to Bertelsmann, and in December 2019 it announced the sale of its remaining 25% interest to Bertelsmann. The disposal is expected to complete in H1 2020.

On May 5, 2017, the Group announced that it was undertaking a strategic review of its US K12 courseware business. The US K12 business was classified as held for sale on the Group's balance sheet as at December 31, 2017 and December 31, 2018. On March 29, 2019 the Group completed the sale of its US K12 courseware business to Nexus Capital Management LP resulting in a pre-tax profit on sale of \$13m.

On August 16, 2017 the Group completed the sale of its test preparation business in China, Global English (GEDU), to Puxin Education.

On November 27, 2017 the Group announced that it had agreed to the sale of Wall Street English (WSE) to a consortium consisting of funds affiliated with Baring Private Equity Asia and CITIC Capital. Consequently, WSE was classified as held for sale on the Group's balance sheet as at December 31, 2017. The disposal completed on March 15, 2018.

During 2019 the Group made some small acquisitions for total consideration of \$53m. Details of the assets acquired, and the associated consideration are shown in "Item 18. Financial Statements" in this Annual Report.

Property, plant and equipment

The Group's headquarters are located at leasehold premises in London, England. As at December 31, 2019 it owned or leased approximately 750 properties, including approximately 580 testing/teaching centers in over 59 countries worldwide, the majority of which are located in the United Kingdom and the United States. Approximately 80 properties, primarily testing/teaching centers in China, were disposed in March 2018 as part of the WSE disposal.

The properties owned and leased by the Group consist mainly of offices, distribution centers and computer testing/ teaching centers.

In some cases properties leased by the Group are then sublet to third parties. These properties are not included in the list below as they are not considered to be principal properties.

The vast majority of printing is carried out by third party suppliers. The Group operates a small digital print operation as part of its Pearson Assessment & Testing businesses which provides short-run and print-on-demand products, typically custom client applications.

The Group owns the following principal properties at December 31, 2019:

<u>General use of property</u>	<u>Location</u>	<u>Area in square feet</u>
Office	Iowa City, Iowa, USA	312,760
Warehouse/Office	Cedar Rapids, Iowa, USA	205,000
Printing	Owatonna, Minnesota, USA	128,000

The Group leased the following principal properties at December 31, 2019:

<u>General use of property</u>	<u>Location</u>	<u>Area in square feet</u>
Teaching Centre	Midrand, South Africa	351,755
Office	Westminster, London, UK	300,503
Office	Hoboken, New Jersey, USA	216,273
Office	Glenview, Illinois, USA	187,500
Office	Bloomington, Minnesota, USA	147,159
Office	Chandler, Arizona, USA	135,460
Teaching Centre	Pretoria, South Africa	134,553
Office	Boston, Massachusetts, USA	122,548
Warehouse/Office	Cedar Rapids, Iowa, USA	119,682
Office	San Antonio, Texas, USA	117,063
Warehouse	Naucalpan de Juarez, Mexico	113,638

Capital Expenditures

See “Item 5. Operating and Financial Review and Prospects — Liquidity and Capital Resources” for description of the Company’s capital expenditure.

ITEM 4A. UNRESOLVED STAFF COMMENTS

The Company has not received, 180 days or more before the end of the 2019 fiscal year, any written comments from the Securities and Exchange Commission staff regarding its periodic reports under the Exchange Act which remain unresolved.

ITEM 5. OPERATING AND FINANCIAL REVIEW AND PROSPECTS

The following discussion and analysis is based on and should be read in conjunction with the consolidated financial statements, including the related notes, appearing elsewhere in this Annual Report. The financial statements have been prepared in accordance with IFRS as issued by the IASB and in conformity with IFRS as adopted by the EU.

Where this discussion refers to constant currency comparisons, these are estimated by re-calculating the current year results using the exchange rates prevailing for the prior period. The increase or reduction in the value calculated is the estimate of the impact of exchange rates. The Group believes this presentation provides a more useful period to period comparison as changes due solely to movements in exchange rates are eliminated.

General overview

Introduction

The Group’s primary segments for management and reporting are geographical as follows: North America, comprising the courseware, assessments and services businesses in the US and Canada; Core, comprising the courseware, assessments and services businesses in more mature markets outside North America, including the UK, Europe, Asia Pacific and North Africa, and Growth, comprising the courseware, assessments and services businesses in emerging markets, including Brazil, India, South Africa, Hispano-America, Hong Kong and China and the Middle East. In addition, the Group has separately reported on an equity basis the results from its 25% interest in Penguin Random House (PRH). Following the Group’s announcement that it had entered into an agreement to sell its remaining stake in PRH, the Group’s equity investment in this business has been classified as held for sale (see below).

On August 16, 2017, the Group completed the sale of its test preparation business in China (GEDU) to Puxin Education, realizing a pre-tax profit on sale of £44m. On October 5, 2017, the Group also completed the sale of a 22% share in Penguin Random House to Bertelsmann, realizing a pre-tax profit on sale of £96m.

On March 15, 2018, the Group completed the sale of Wall Street English (WSE) to a consortium of funds affiliated with Baring Private Equity Asia and CITIC Capital realizing a profit before tax of £207m. The business had been classified as held for sale at December 31, 2017.

On March 29, 2019, the Group completed the sale of the US K12 courseware business (K12) to Nexus Capital Management LP for headline consideration of \$250m comprising an initial cash payment of \$25m and an unconditional vendor note for \$225m expected to be repaid in three to seven years. The K12 business had been held for sale on the balance sheet following a strategic review and discussion with potential buyers since the end of 2017 until the disposal in 2019.

In December 2019, the Group announced the sale of its remaining 25% interest in PRH. The sale is expected to complete in the first half of 2020. At the end of December our share of the assets of PRH has been classified as held for sale on the balance sheet.

None of the disposals referred to above were significant enough to meet the definition of a discontinued business and their results to the date of disposal are included in continuing operations.

The Group's total sales decreased from £4,129m in 2018 to £3,869m in 2019, a decrease of £260m or 6%. This year on year decrease was impacted by currency movements, primarily the comparative strength of the US dollar relative to sterling during the year. In 2019 currency movements increased sales by £97m when compared to the equivalent figures at constant 2018 rates. When measured at 2018 constant exchange rates, the Group's sales declined by 9%. Part of the decrease is due to the absence of sales from businesses sold during 2018 and 2019. The Group estimates that after excluding the impact of disposals sales were flat in 2019 compared to 2018 at constant exchange rates. Although sales at constant rates after taking account of disposals were flat there were further significant decreases in North America in higher education courseware, offset by aggregate growth in the rest of the business.

In 2019, the Group reported an operating profit of £275m compared to an operating profit of £553m in 2018. The decrease in profit of £278m mainly reflects the absence of significant gains on disposal in 2019 compared to 2018, an increase in intangible charges and restructuring costs and the lost contribution from businesses disposed which more than offset a favorable impact from currency movements and the adoption of IFRS 16 'Leases'. After stripping out the effect of the sale of businesses, intangible charges, restructuring costs, one-off pension related charges and the impact of currency movements and IFRS 16, profits from trading increased by around £30m. This underlying trading increase was primarily due to savings from restructuring and lower staff incentives which offset the impact on profits of lower sales in North America higher education courseware and inflationary pressures.

IFRS 16 'Leases' was adopted on 1 January 2019 but the comparative figures for 2018 have not been restated. The impact in 2019 was to increase adjusted operating profit by £25m (see also note 1 within Item 18–Financial Statements).

In May 2017, the Group announced a new restructuring program, the 2017-2019 restructuring program. This program began in the second half of 2017 and costs incurred were £79m in 2017, £102m in 2018 and £159m in 2019 (including the share of costs incurred by associates). The costs relate to delivery of cost efficiencies in the enabling functions and US higher education courseware business together with further rationalization of the property and supplier portfolio. The restructuring costs in 2019 and 2018 relate predominantly to staff redundancies and in 2018 to the net cost of property rationalization. Included in the property rationalization in 2018 is the impact of the consolidation of the Group's property footprint in London which resulted in a charge for onerous leases of £91m partially offset by profit from the sale of property of £81m.

Operating profit in 2019 included a gain of £16m on the sale of businesses. This gain mainly relates to the sale of the K12 school courseware business in the US. In 2018 a £230m gain from the sale of businesses related to the sale of the Wall Street English language teaching business (WSE), realizing a gain of £207m, the disposal of the Group's equity interest in UTEL, the online University partnership in Mexico, realizing a gain of £19m, and various other smaller disposal items realizing a net gain of £4m.

Currency movements increased 2019 operating profit by £15m when compared to the equivalent figures translated at constant 2018 exchange rates.

The profit before taxation in 2019 of £232m compares to a profit before taxation of £498m in 2018. The decrease in profit of £266m reflects the £278m decrease in the reported operating profit identified above offset by a decrease in net finance costs of £12m, from £55m in 2018 to £43m in 2019.

The Group's net interest payable increased from £24m in 2018 to £41m in 2019. The increase is due to the adoption of IFRS 16 which resulted in an additional £34m of net interest payable in 2019. After excluding the impact of IFRS 16 there was a reduction in net interest payable due to lower levels of average net debt together with favorable movements in interest on tax and the absence of one-off costs relating to the redemption of bonds. Also included in net finance costs are net finance costs relating to employee benefit plans, foreign exchange and other gains and losses. In 2019 the total of these items was a loss of £2m compared to a loss of £31m 2018. Income relating to employee benefit plans was £2m higher in 2019 than in 2018 reflecting the higher net surplus on pension balances at the beginning of 2019 compared to the beginning of 2018. Other losses in both 2019 and 2018 primarily relate to foreign exchange differences on un-hedged cash and cash equivalents, and other financial instruments although these losses were much lower in 2019.

The reported tax credit in 2019 was £34m (14.7%) compared to a credit of £92m (18.5%) in 2018. The movement in the tax rate reflects several one-off benefits in 2018 including provision releases due to the expiry of relevant statutes of limitation and due to the reassessment of historical positions, as well as a one-off benefit from a reassessment of the tax treatment of certain items of income and expenditure. In 2019, the credit is primarily due to US tax losses generated on the disposal of the K12 business.

Net cash generated from operations decreased to £480m in 2019 from £547m in 2018. The decrease in cash generated from operations was largely due to increased investment in pre-publication and other increases in working capital, including the impact of reduced staff incentives, together with increased restructuring spend and the absence of a contribution from the K12 business following its disposal in the first half of 2019. These decreases were partially offset by the impact of IFRS 16 which reclassified lease cash flows as financing, investment and interest items rather than as cash flows from operations as was previously the case.

Net interest paid at £64m in 2019 compares to £22m in 2018 and reflects the adoption of IFRS 16 and the incorporation of lease interest for the first time as referred to above. Tax paid in 2019 was £30m compared to £43m in 2018 with the decrease mainly explained by a refund received in the US relating to historical periods together with no US tax being paid in relation to 2019 as a result of the tax loss on the sale of the US K12 business. In addition to the refund in the US in 2019, there was tax paid to the Chinese tax authorities following the disposal of WSE during 2018 and New York state and city taxes paid in the US as a result of a settlement with the tax authorities relating to past disposals.

Capital expenditure on property, plant and equipment was £55m in 2019 compared to £70m in 2018. Proceeds from the sale of property in 2018 of £128m includes proceeds from the sale of the Group's London property as part of the restructuring program. There were no material property sales in 2019. Capital expenditure on software intangibles increased from £130m in 2018 to £138m in 2019. The expenditure on both tangible and intangible capital includes the continuing investment in enabling function technology designed to lower administrative costs.

Cash outflow from acquisitions including £40m of additional capital invested in PRH in 2019 was £97m compared to £15m in 2018 relating to investment purchases and prior year acquisitions. There were two small acquisitions in 2019, Lumerit and Smart Sparrow which together accounted for £40m of cash consideration with the balance of the cash outflow on acquisitions in 2019 being in relation to investments and prior year items. The net cash inflow in respect of businesses and investments disposed was £107m in 2018 compared to a net outflow of £96m in 2019. In 2018 the cash received largely related to proceeds from the sale of WSE and UTEL. In 2019 the cash outflow mainly relates to the US K-12 Courseware business and reflects the deferral of proceeds and the level of working capital in the business at the disposal date.

Dividends from joint ventures and associates decreased from £117m in 2018 to £64m in 2019. The reduction is primarily due to the impact of the PRH sale transaction in 2017 which resulted in a reduced equity share from 47% to 25% and involved recapitalization dividends which were £50m in 2018. Dividends paid to company shareholders in 2019 of £147m compares to £136m in 2018. Cash returned to shareholders via the share buyback program, announced in October 2017 and completed in February 2018, amounted to £153m in 2018. Treasury share purchases in 2019 in respect of employee share plans were £52m. There were no purchases of treasury shares for this purpose in 2018.

Overall the Group's net borrowings increased from £143m at the end of 2018 to £1,016m at the end of 2019. In addition to the cash flows referred to above, the adoption of IFRS 16 added £666m of net debt on transition after taking account of both lease liabilities and the investment in finance lease receivable brought on balance sheet at 1 January 2019.

Outlook

On 23 March 2020, the Group updated its guidance for trading in 2020 to take account of the impact of the COVID-19 pandemic on the business. This guidance was given whilst recognising that, during a prolonged period of uncertainty, it may need to be updated. The Group will continue to monitor the situation closely and will update further as appropriate.

Original guidance for 2020 was announced in February 2020 with the Group then expecting to report adjusted operating profit of between £410m and £490m for 2020. Adjusted operating profit is the key financial measure used by management to evaluate the performance of the Group and allocate resources to business segments over time by separating out those items of income and expenditure relating to acquisitions and disposals, major restructuring programs and certain other items that are not representative of underlying performance. Reconciliations of adjusted operating profit to operating profit are included below under 'Sales and operating profit by segment' and in note 2 within Item 18 — Financial Statements.

In the revised guidance issued on 23 March, the Group identified three major trends in the business resulting from the impact of COVID-19 as follows

- Uncertainty in businesses that rely on learners and staff being able to access physical sites, such as Pearson VUE, the Pearson Test of English, US Student Assessments, Higher Education institutions in South Africa and, to a lesser extent, UK qualifications, which will have a negative impact on Pearson profits. If the crisis broadens, it could also impact the English franchise business in Brazil. The Group is making both variable and discretionary cost savings to partially mitigate these impacts and is considering further actions.
- A significant uplift in the use of the Group's digital products and services, as Pearson enables existing courseware and assessment customers to migrate quickly to online learning and testing. This will strengthen and deepen these relationships, and should, in time, accelerate the shift to online learning.

- Rapidly growing interest in the Global Online Learning businesses, focused initially on the Group's virtual school offerings, but expected also to include fully online university programs. The Group believes that this growing interest should translate into increased billings later in the year and thereafter, although the scale will depend in part on how long the disruption to face to face teaching and learning persists.

Restrictions on access to physical infrastructure is mainly expected to impact the Group's assessment and qualifications businesses. As a result of the outbreak, the majority of Pearson VUE test centres were closed during March 2020 for an initial period until the middle of April. The business is evaluating local regulations around re-opening sites to address essential testing services such as for health care workers. It is estimated that the financial impact of these closures will be to reduce 2020 adjusted operating profit by approximately £25m to £35m. If closures last longer than the period above, then it is expected that there would be an operating impact of similar scale for each additional month partially offset by cost actions taken. Tests run throughout the year providing time for pent up demand to strengthen the performance once the test centres are re-opened. The business is also working with clients who are able to take advantage of Pearson VUE's online proctoring offering.

With the acceleration of the spread of COVID-19 across the US, a number of states and boards have decided to postpone or waive testing for the academic year. To date, there have been test cancellations which impact 2020 operating profit by around £15m after mitigating actions. There is a risk of further state test cancellations which could have a similar impact on profit.

In the UK, Pearson offers academic and vocational qualifications including GCSEs, A Levels and BTECs. The UK Government has closed UK schools and announced that the high stakes exams which usually take place in May and June will be cancelled for the academic year. The Group continues to work closely with the Department for Education, Ofqual and the other awarding bodies to implement the plan announced by the UK Government and support teacher assessment to ensure students receive qualifications. In line with the agreed approach, the UK business will continue to award qualifications and provide the opportunity to sit exams later in the year and expect any impact on profits to be modest.

The Group has seen impacts from closures of schools in China and Italy, but the financial impact is modest, given the size of our businesses in these countries. The impact to sales of products in other regions is uncertain, especially given that the period for which educational institutions may be closed is unclear, and the businesses sales periods are seasonal.

The outlook for 2020 is based on the following factors when comparing to 2019. Guidance is based on exchange rates at 31 December 2019 and these rates would generate approximately £17m less adjusted operating profit than would be the case at constant 2019 average exchange rates. In 2019, the Group generated approximately 62% of its sales in the US, 3% in Greater China, 5% in the Eurozone, 3% in Brazil, 3% in Canada, 4% in Australia, 2% in South Africa and 2% in India. Guidance for 2020 excludes a contribution from PRH which is expected to be sold in the first half of 2020 and is held for sale at the end of 2019. In addition, the 2019 results include the K12 business to the point of sale in March 2019. The reduction in adjusted operating profit in 2020 from portfolio changes compared to 2019 is expected to be £55m including £65m in relation to PRH. In 2020, the Group expects cost inflation of around £30m and reinstatement of staff incentives and increased investment in strategic growth areas together are expected to account for an increase in costs of £45m. Incremental in-year benefits from the 2017-2019 restructuring program are expected to be £60m in 2020.

The Group sets out in note 11 within Item 18 — Financial Statements, as part of its assessment of goodwill for impairment, the sensitivity to impairment resulting from reasonably possible changes in key assumptions. It is highlighted that a relatively small reduction in contribution, that could arise from longer-term disruption caused by the COVID-19, may result in impairment charges.

The impact of the pandemic has been modelled under several scenarios to ensure that the likelihood of a prolonged period of disruption has been appropriately considered in assessing the availability of funding to the Group and the ability of the Group to comply with its banking covenants. In addition to the impacts on revenue and profit referred to above the Group expects an impact on its operating cash flows including the normal impact from conversion of profits but also additional deterioration from adverse movements in working capital. The modelling includes a severe reduction in revenue and profit that extends from March into the second and third quarters of 2020 with conditions returning to normal in the course of the fourth quarter. The Group believes it has significant financial headroom, is projected to comply with its banking covenants and is working to protect its cash flow and pro-actively manage working capital. At the end of February, the Company had approximately £1bn in total liquidity immediately available from cash and its Revolving Credit Facility and is looking at all options to further maximize liquidity.

Sales information by segment

The following table shows sales information for each of the past three years by segment:

	Year ended December 31		
	2019	2018	2017
	£m	£m	£m
North America	2,534	2,784	2,929
Core	838	806	815
Growth	497	539	769
Total continuing operations	<u>3,869</u>	<u>4,129</u>	<u>4,513</u>

Sales information by geographic market supplied

The following table shows sales information for each of the past three years by geographic region:

	Year ended December 31		
	2019	2018	2017
	£m	£m	£m
Europe	629	623	646
North America	2,522	2,7536	2,896
Asia Pacific	441	455	643
Other countries	277	298	328
Total continuing operations	<u>3,869</u>	<u>4,129</u>	<u>4,513</u>

In the table above sales are allocated based on the country in which the customer is located.

Exchange rate fluctuations

The Group earns a significant proportion of its sales and profits in overseas currencies, principally the US dollar. Sales and profits are translated into sterling in the consolidated financial statements using average rates. The average rate used for the US dollar was £1:\$1.28 in 2019, £1:\$1.34 in 2018 and £1:\$1.30 in 2017. Fluctuations in exchange rates can have a significant impact on the Group's reported sales and profits. In 2019, the Group generated 62% of its continuing sales in the US (2018: 64%; 2017: 65%). In 2019 the Group estimates that a five-cent change in the average exchange rate between the US dollar and sterling would have had an impact on its reported earnings per share of approximately 1.5p. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk" for more information on how foreign exchange risk is managed. The year-end US dollar rate for 2018 was £1:\$1.32 compared to £1:\$1.27 for 2018 and £1:\$1.35 for 2017. The total impact on shareholders' funds of foreign exchange translation was a loss of £111m in 2019 compared to a gain of £86m in 2018. These net movements are principally driven by movements in the US dollar as a significant portion of the Group's operations are in the US.

Critical accounting policies

The Group's consolidated financial statements included in "Item 18. Financial statements" are prepared based on the accounting policies described in note 1 to the consolidated financial statements.

Certain of these accounting policies require the application of management judgment in selecting assumptions when making significant estimates about matters that are inherently uncertain. Management bases its estimates on historical experience and other assumptions that it believes are reasonable. These policies are described in note 1a (3) in "Item 18. Financial Statements".

Results of operations

Year ended December 31, 2019 compared to year ended December 31, 2018

Consolidated results of operations

Sales

The Group's total sales decreased from £4,129m in 2018 to £3,869m in 2019, a decrease of £260m or 6%. The year on year movement was impacted by exchange rates, primarily the comparative strength of the US dollar relative to sterling during the year. In 2019, currency movements increased sales by £97m when compared to the equivalent figures at constant 2018 rates. When measured at 2018 constant exchange rates, the Group's sales declined by 9%. Part of the decrease is due to the absence of sales from businesses sold during 2018 and 2019. The Group estimates that after excluding the impact of disposals sales were flat in 2019 compared to 2018 at constant exchange rates. Although sales at constant rates after taking account of disposals were flat there were further significant decreases in North America in higher education courseware, offset by aggregate growth in the rest of the business.

North America sales decreased by £250m or 9% from £2,784m in 2018 to £2,534m in 2019. The Group estimates that after excluding the impact of exchange rates, the contribution from businesses disposed in 2018 and 2019, North America sales declined by 3% in 2019 compared to 2018. This decline was primarily due to North American Higher Education Courseware which declined 12% with print declining by close to 30%, partially offset by modest growth in digital. In US School Assessment, revenue declined slightly with continued contraction in revenue associated with the PARCC and ACT-Aspire multi state contracts and contract losses were partially offset by new contract wins. In Professional Certification (Pearson VUE) revenue grew driven by increases in global test volumes. Revenue at Virtual Schools and OPM grew at 6% and 4% respectively due to increased enrolment and course registrations. North America was the most significant source of the Group's sales and as a proportion of total sales contributed 65% in 2019 and 67% in 2018.

Core sales increased by £32m or 4% from £806m in 2018 to £838m in 2019. The Group estimates that after excluding the impact of exchange, the contribution from businesses disposed in 2018, Core sales were up 5% when comparing 2019 and 2018. Although Courseware sales declined moderately, there was strong growth in Student Assessment and Qualifications due to price and volume increases for A levels and GCSEs in the UK and the delivery of a new digital assessment contract in Egypt. In addition, there was good growth in Pearson Test of English Academic, OPM in the UK and Australia and Professional Certification.

Growth sales decreased by £42m from £539m in 2018 to £497m in 2019 principally due to the lost contribution in China following the disposal of WSE in 2018. The Group estimates that after excluding the impact of exchange rates and the contribution from businesses disposed, Growth sales increased by 4% when comparing 2019 and 2018. Strong growth in China and good growth in Brazil and the Middle East were partially offset by declines in Higher Education Courseware in South Africa following a change in government funding.

Cost of goods sold and operating expenses

The following table summarizes the Group's cost of sales, net operating expenses and impairment of intangible assets:

	Year ended December 31	
	2019	2018
	£m	£m
Cost of goods sold		
Operating expenses:	1,858	1,943
Distribution costs	73	88
Selling, marketing and product development costs	631	759
Administrative and other expenses	999	1,039
Restructuring costs	157	90
Other income	(54)	(69)
Total net operating expenses	1,806	1,907
Other net gains	(16)	(230)
Total continuing operations	<u>3,648</u>	<u>3,620</u>

Cost of goods sold. Cost of sales consists of costs for raw materials, primarily paper, printing and binding costs, amortization of pre-publication costs, royalty charges, the cost of service provision in the assessment and testing business and the cost of teaching and facilities in direct delivery businesses. The Group's cost of sales decreased by £85m, or 4%, from £1,943m in 2018, to £1,858m in 2019. The decrease largely reflects the decrease in sales but also includes some continuing benefit from restructuring. In addition, cost of sales as a percentage of sales increased largely as a result of the mix effect caused by a sales decline in businesses with generally higher gross margins than Pearson as a whole. Cost of sales was 48.0% of sales in 2019 compared to 47.1% in 2018.

Distribution costs. Distribution costs consist primarily of shipping costs, postage and packing. Distribution costs decreased by £15m reflecting the flow through of restructuring savings, the absence of costs from businesses disposed, the decrease in physical print sales and some one-off costs in the Core business in 2018 relating to a change in distribution arrangements that year.

Selling, marketing and product development costs. The Group's selling, marketing and product development costs decreased by £128m or 17% from £759m in 2018 to £631m in 2019. The decrease is explained by the absence of costs from businesses disposed and restructuring savings realized in the year. As a percentage of sales, these costs decreased in 2019 from 18.4% in 2018 to 16.3% in 2019.

Administrative and other expenses. The Group's administrative and other expenses decreased by £40m or 4% from £1,039m in 2018 to £999m in 2019. This decrease is explained by the absence of costs from businesses disposed, the impact of restructuring savings particularly in enabling functions and the benefit from adoption of IFRS 16 partly offset by continuing investment in technology and the impact of higher intangible charges. In 2019 intangible charges increased due to an additional £65m impairment charge relating to acquired intangibles in the Brazil business following a reassessment of the relative risk in that market.

Restructuring costs. Restructuring costs of £157m in 2019 and £90m in 2018 (excluding the share of associate restructuring charges) relate to the 2017-2019 restructuring program announced in May 2017. This program began in the second half of 2017 and costs incurred related to delivery of cost efficiencies in enabling functions and the US higher education courseware business together with further rationalization of the property and supplier portfolio. The restructuring costs in 2018 and 2019 relate predominantly to staff redundancies and, in 2018, to the net cost of property rationalization. Included in the property rationalization in 2018 is the impact of the consolidation of the Group's property footprint in London which resulted in a charge for onerous leases of £91m partially offset by profit from the sale of property of £81m.

Other income. Other operating income mainly consists of freight recharges, sub-rights and licensing income, distribution commissions, investment income and gains on minor asset disposals together with service fee income from Penguin Random House. Other operating income decreased to £54m in 2019 compared to £69m in 2018 mainly due to decreased rights income, the absence of recoveries following legal settlements in 2018 and fewer asset gains in 2019.

Other net gains and losses. In 2019 gains of £16m largely relate to the sale of the K12 school courseware business in the US. In 2018 a £230m gain from the sale of businesses related to the sale of the Wall Street English language teaching business (WSE), realizing a gain of £207m, the disposal of the Group's equity interest in UTEL, the online University partnership in Mexico, realizing a gain of £19m, and various other smaller disposal items realizing a net gain of £4m.

Share of results of joint ventures and associates

The contribution from the Group's joint ventures and associates increased by £10m to £54m in 2019 from £44m in 2018. The increase is mainly due to reduced intangible and restructuring charges in PRH in 2019 and in addition, there were restructuring costs incurred in respect of the Group's ACT Aspire joint venture in 2018 that were absent in 2019.

Operating profit

In 2019, the Group reported an operating profit of £275m compared to an operating profit of £553m in 2018. The decrease in profit of £278m mainly reflects the absence of significant gains on disposal in 2019 compared to 2018, an increase in intangible charges and restructuring costs and the lost contribution from businesses disposed which more than offset a favorable impact from currency movements and the adoption of IFRS 16 'Leases'. Excluding out the effect of the sale of businesses, intangible charges, restructuring costs, one-off pension related charges and the impact of currency movements and IFRS 16, profits from trading increased by around £30m. This underlying trading increase was primarily due to savings from restructuring and lower staff incentives which offset the impact on profits of lower sales in North America higher education courseware and inflationary pressures.

Net finance costs

Net finance costs decreased from £55m in 2018 to £43m in 2019. Net interest payable increased from £24m in 2018 to £41m in 2019. The increase is due to the adoption of IFRS 16 which resulted in an additional £34m of net interest payable in 2019. After excluding the impact of IFRS 16 there was a reduction in net interest payable due to lower levels of average net debt together with favorable movements in interest on tax and the absence of one-off costs relating to the redemption of bonds. Also included in net finance costs are net finance costs relating to employee benefit plans, foreign exchange and other gains and losses. In 2019 the total of these items was a loss of £2m compared to a loss of £31m 2018. Income relating to employee benefit plans was £2m higher in 2019 than in 2018 reflecting the higher net surplus on pension balances at the beginning of 2019 compared to the beginning of 2018. Other losses in both 2019 and 2018 primarily relate to foreign exchange differences on un-hedged cash and cash equivalents, and other financial instruments although these losses were much lower in 2019.

For a more detailed discussion of the Group's borrowings and interest expenses see "— Liquidity and Capital Resources — Capital Resources" and "— Borrowings" below and "Item 11. Quantitative and Qualitative Disclosures about Market Risk".

Taxation

The reported tax credit in 2019 was £34m (14.7%) compared to a credit of £92m (18.5%) in 2018. The movement in the tax rate reflects several one-off benefits in 2018 including provision releases due to the expiry of relevant statutes of limitation and due to the reassessment of historical positions, as well as a one-off benefit from a reassessment of the tax treatment of certain items of income and expenditure. In 2019, the credit is primarily due to US tax losses generated on the disposal of the K12 business.

Discontinued operations

There were no discontinued operations in either 2018 or 2019.

Profit for the year

The profit for the financial year in 2019 was £266m compared to a profit in 2018 of £590m. The decreased profit reflects decreased operating profit and reduced tax credits partially offset by lower net finance costs as set out above.

Earnings per ordinary share

The basic earnings per ordinary share, which is defined as the profit for the financial year divided by the weighted average number of shares in issue, was 34.0p in 2019 compared to 75.6p in 2018 based on a weighted average number of shares in issue of 777.0m in 2019 and 778.1m in 2018. The decrease in earnings per share was due to the decrease in profit for 2019 as described above and was not significantly impacted by the small decrease in the number of weighted average number of shares in 2019 compared to 2018.

The diluted earnings per ordinary share was 34.0p in 2019 and 75.5p in 2018, with the dilutive effect of options being minimal.

Exchange rate fluctuations

Currency movements increased sales by £97m and increased operating profit by £15m. See “Item 11. Quantitative and Qualitative Disclosures about Market Risk” for a discussion regarding the Group’s management of exchange rate risks.

Sales and operating profit by segment

The following tables summarize the Group’s sales and adjusted operating profit for each of the Group’s business segments. Adjusted operating profit is included as it is the key financial measure used by management to evaluate the performance of the Group and allocate resources to business segments over time by separating out those items of income and expenditure relating to acquisitions and disposals, major restructuring programs and certain other items that are not representative of underlying performance. Reconciliations of adjusted operating profit to statutory operating profit are included below and in note 2 within Item 18 — Financial Statements.

In the Group’s adjusted operating profit, it has excluded other net gains and losses, acquisition related costs, amortization and impairment of acquired intangibles and the cost of major restructuring programs. In 2018, the Group also excluded the impact of adjustments arising from clarification of guaranteed minimum pension (GMP) equalization legislation in the UK. The intangible charges relate only to intangible assets acquired through business combinations and acquisition costs are the direct costs of acquiring those businesses. The Group does not believe these charges are relevant to an understanding of the underlying performance. Charges relating to acquired intangible assets are non-cash charges that reflect the historical expenditure of the acquired business. These acquired intangible assets continue to be supported by ongoing expenditure that is reported within adjusted operating profit. Other net gains and losses that represent profits and losses on the sale of subsidiaries, joint ventures, associates and other financial assets are also excluded from adjusted operating profit as it is important to highlight their impact on operating profit, as reported, in the period in which the disposal transaction takes place in order to understand the underlying trend in the performance of the Group. The GMP equalization charge arises from the ruling in the Lloyds Bank High Court case in the UK in October 2018 that provided clarity on how pension plans should equalize GMP between males and females. The case ruling results in an income statement charge, an additional liability and the potential requirement to make back-payments to pensioners who may have been retired for some years. The Group excluded this charge from adjusted earnings as it related to historical circumstances.

A reconciliation of operating profit to adjusted operating profit for continuing operations is included in the tables below:

	Year ended December 31, 2019				
	North America	Core	Growth	PRH	Total
	£m	£m	£m	£m	£m
Sales	2,534	838	497	—	3,869
	65%	22%	13%	—	100%
Total operating profit / (loss)	202	65	(43)	51	275
Add back:					
Cost of major restructuring	110	28	19	2	159
Intangible charges	62	7	82	12	163
Other net gains and losses	(13)	(8)	5	—	(16)
UK pension GMP equalization	—	—	—	—	—
Total adjusted operating profit	<u>361</u>	<u>92</u>	<u>63</u>	<u>65</u>	<u>581</u>
	62%	16%	11%	11%	100%

	Year ended December 31, 2018				
	North America	Core	Growth	PRH	Total
	£m	£m	£m	£m	£m
Sales	2,784	806	539	—	4,129
	67%	20%	13%	—	100%
Total operating profit	216	25	266	46	553
Add back:					
Cost of major restructuring	78	16	—	8	102
Intangible charges	72	8	19	14	113
Other net gains and losses	(4)	—	(226)	—	(230)
UK pension GMP equalization	—	8	—	—	8
Total adjusted operating profit	<u>362</u>	<u>57</u>	<u>59</u>	<u>68</u>	<u>546</u>
	66%	10%	11%	13%	100%

North America

Sales in North America decreased by £250m or 9% from £2,784m in 2018 to £2,534m in 2019 and adjusted operating profit decreased by £1m, from £362m in 2018 to £361m in 2019. The Group estimates that after excluding the impact of exchange, the contribution from businesses disposed in 2019 and 2018 and the impact of adopting IFRS 16 on profits, North America sales declined by 3% in 2019 compared to 2018 and adjusted operating profit also decreased by 3%. The sales decline was primarily due to North American Higher Education Courseware which declined 12% with print declining by close to 30%, partially offset by modest growth in digital. In US School Assessment revenue declined slightly with continued contraction in revenue associated with the PARCC and ACT-Aspire multi state contracts and contract losses were partially offset by new contract wins. In Professional Certification (Pearson VUE) revenue grew driven by increases in test volumes. Revenue at Virtual Schools and OPM grew at 6% and 4% respectively due to increased enrolment and course registrations. The decrease in adjusted operating profit reflected the sales shortfall, inflation and investment in strategic growth areas which offset the impact of restructuring savings and lower staff incentives.

The North America results also include costs of £110m in 2019 and £78m in 2018 in respect of the 2017-2019 restructuring program. Amortization relating to acquired intangibles was £62m in 2019 compared to £72m in 2018 reflecting lower acquisition activity in recent years. Net gains on business disposals of £13m in 2019 relate to the K12 sale with £4m of profits on several small disposals in 2018. Overall adjusted operating margins in the North America business increased in 2019 to 14.2% compared to 13.0% in 2018 primarily due to restructuring savings and the disposal of the K12 business, as noted below, which generally had lower margins.

On March 29, 2019 the Group completed the sale of the US K12 school courseware business to Nexus Capital Management LP for headline consideration of \$250m comprising an initial cash payment of \$25m and an unconditional vendor note for \$225m expected to be repaid in three to seven years.

North America — courseware

In US Higher Education Courseware, the revenue decline of 12% with print declining close to 30% was partially offset by modest growth in digital. In 2019 the weaker performance was driven by several factors: Premium-priced print and digital products were substituted for digital only formats and sales of bundle units declined 45% during 2019; Campus bookstores bought less physical inventory due to changing student behavior, with over 50% of learners now preferring an eBook to a physical text with offsetting eBook growth of 18% during 2019 and; There were modest adoption share losses caused by delivery issues due to the implementation of the new ERP system in the second half of 2018 as well as the re-organization of the sales force.

The business is focused on regaining share over time as it builds traction from the rollout of our next wave of digital products on the Pearson Learning Platform (PLP), which launched in September 2019. 60% of all Revel titles will migrate onto the PLP in 2020 enhancing the faculty and student experience. The business is also launching a direct-to-learner version of the Pearson eBook in 2020, with enhanced features and AI-driven text-to-speech.

US Higher Education Courseware digital registrations, including eBooks, declined 2%. Good registration growth in Revel, up 9%, was offset by continued market pressure in Developmental Mathematics and the planned retirement and reprioritization of niche products with lower demand. There was continued good progress with Inclusive Access signing 162 new institutions in 2019, taking the total not-for-profit and public institutions served to 779. The business now has direct relationships with over 850 institutions, including 80 longer-standing contracts with for-profit colleges. In 2019, 1.8m Inclusive Access enrolments were served up from 1.4m in 2018, making up 9% of 2019 US Higher Education Courseware revenue, up 19% on 2018 on a like-for-like basis, excluding the 80 for-profit colleges.

North America — assessment

In Student Assessment, revenue declined slightly in 2019 with continued contraction in revenue associated with PARCC and ACT-Aspire multi-state contracts and contract losses which were partially offset by new contract wins. During 2019, Pearson won new contracts or signed renewals in several key incumbent states including Kentucky, Maryland, Colorado and New Jersey, as well as the federal NCES contract for delivering the National Assessment of Educational Progress (NAEP). Pearson also won back the testing contract in the state of Tennessee. Automated scoring continues to be a competitive strength for Pearson. In 2019, we scored 39 million responses with AI, up 8% from 2018.

In Professional Certification (VUE), global test volume rose 8% to c.16.5 million tests. Revenue in North America was up a high single-digit percentage, mostly driven by the IT sector with increased demand for cloud technology certifications through Microsoft and Amazon, and volume growth in an education contract launched at the end of 2018 which is now operating at its full run-rate. VUE signed over 40 new contracts in 2019, including the Project Management Institute (PMI) and our renewal rate on existing contracts continues to be over 95%.

Clinical Assessment declined as demand for new product only partially offset normal declines in products in the later stages of their lifecycle.

North America — services

School Services (Virtual Schools) grew revenue 6% and served 76,000 full time equivalent students through 42 continuing full-time virtual partner schools in 28 states, up 5% on last year. Six new full-time online, state-wide partner schools opened in the 2019-20 school year in the states of Oregon, Washington, Tennessee, Minnesota and California, while a contract was exited in North Carolina.

Higher Education Services (including OPM and Learning Studio) grew revenue 4%, due to growth in OPM, partially offset by a small drag from Learning Studio revenue, a learning management system, which was fully retired in 2019. In OPM, revenue grew 9%, with growth in course registrations of 5% and new programs launched more than offsetting programs terminated. The overall active program count grew to 347 from 325 in 2018.

During 2019, the OPM business continued to optimize its portfolio and reduced the number of partners to 25 from 35. This will allow the business to shift towards enterprise models where it has a number of programs with a single partner and can benefit from economies of scale in marketing and recruitment and integrate more content and assessment services into these partnerships.

Core

Sales in Core markets increased by £32m, or 4%, from £806m in 2018 to £838m in 2019 while adjusted operating profit increased by £35m, or 61%, from £57m in 2018 to £92m in 2019. At constant exchange and after excluding the contribution from disposals and the impact of adoption of IFRS 16 on profit, Core sales were up 5% year on year and adjusted operating profit increased by 58%. Although Courseware sales declined moderately, there was strong growth in Student Assessment and Qualifications due to price and volume increases for A levels and GCSEs in the UK and the delivery of a new digital assessment contract in Egypt. In addition, there was good growth in Pearson Test of English Academic, OPM in the UK and Australia and Professional Certification.

The increase in adjusted operating profit was mainly due to trading growth and restructuring savings. Also included in the Core statutory operating profit were restructuring costs of £28m in 2019 and £16m in 2018 and amortization of acquired intangibles of £7m in 2019 and £8m in 2018. The statutory operating profit in 2018 also includes the one-off £8m charge in respect of guaranteed minimum pension (GMP) equalization in the UK.

Core — courseware

Courseware revenue declined moderately. Declines in School Courseware in the UK and Australia offset growth in Italy. In Higher Education Courseware, revenue declines in the UK and Europe more than offset growth in Australia.

Core — assessments

In Student Assessment and Qualifications, revenue grew strongly, due to price and volume increases for A levels and GCSE qualifications in the UK and the delivery of a new digital assessment contract in Egypt. This was partially offset by continued market declines in Apprenticeships. In 2019, the business successfully delivered the UK's National Curriculum Test (NCT), marking 3.8m scripts, up slightly from 2018. The NCT will be delivered by another provider in 2020.

In Professional Certification (VUE), revenue was up due to good growth in the DVSA test in the UK (UK driving test), an additional exam series added to the ICAEW (Institute of Chartered Accountants in England and Wales) contract and good growth in the MOI (French driving test) which launched in late 2017. Clinical Assessment sales declined primarily in France and the Netherlands due to an absence of new major product introductions.

PTE Academic saw continued strong growth in test volumes in Australia and New Zealand up 14% from 2018. This was driven by its use to support visa applications to the Australian Department of Home Affairs as well as good growth in New Zealand. The business recently announced the win of the UK Secure English Language Test (SELT) contract with the UK Home Office which is expected to drive future growth.

Core — services

In Higher Education Services (OPM), revenue growth was driven by course enrolment growth in the UK. During the year, the business also announced new OPM partnerships in Australia with the University of Adelaide and University of Wollongong.

Growth

Growth sales decreased by £42m or 8%, to £497m in 2019 from £539m in 2018. Adjusted operating profit increased by £4m or 7% to £63m in 2019 from £59m in 2018. The Group estimates that, after excluding the impact of exchange rates, the incremental contribution from businesses disposed in 2019 and 2018 and the impact of adoption of IFRS 16 on profits, sales were up 4% year on year and adjusted operating profit was up 24%. Strong sales growth in China and good growth in Brazil and the Middle East was partially offset by declines in South Africa.

Adjusted operating profit benefitted from higher revenue together with the benefits of restructuring. The Group's statutory operating profit included restructuring costs of £19m in 2019 and in 2018 restructuring costs were offset by credits to leave a net charge of nil. Also included in the statutory operating profit is amortization and impairment of acquired intangibles and gains and losses on disposal of businesses. In 2019 intangible charges of £82m compare to a charge of £19m in 2018 and this increase was due to an additional £65m impairment charge relating to acquired intangibles in the Brazil business following a reassessment of the relative risk in that market. In 2018 gains on the disposal of businesses amounted to £226m and result from the sale of the Wall Street English language teaching business (WSE), realizing a gain of £207m and the disposal of the equity interest in UTEL, the online University partnership in Mexico, realizing a gain of £19m. Losses on disposals in 2019 of £5m relate to adjustments to prior year disposals.

Growth — courseware

After taking account of currency movements courseware revenue was flat, with growth in English Language Courseware in China and School Courseware in the Middle East and Hispano America, offset by declines in school courseware in India and Higher Education courseware in South Africa following a change in government funding.

Growth — assessments

Professional Certification grew well due to a large ICT infrastructure certification contract, and several new smaller contract launches in China. PTE Academic saw strong growth in revenue with test volumes up 25% in India and China.

Growth — services

In English Services, underlying revenue grew slightly in our English Language School franchise in Brazil due to new product launches. In School Services, underlying revenue grew slightly due to price increases and new product launches in our private sistemas in Brazil. In Higher Education Services, enrolments grew 3% at the Pearson Institute of Higher Education (formerly CTI), however revenue declined modestly due to changes in mix.

Penguin Random House

The Group owns 25% of Penguin Random House, the first truly global consumer book publishing company. The Group's share of Penguin Random House adjusted operating profits were £65m in 2019 compared to £68m in 2018. Penguin Random House performed solidly in 2019 with underlying revenue growth from a rise in audio sales, stable print sales, and the industry's top bestsellers, including "Where the Crawdads Sing" by Delia Owen, "Becoming" by Michelle Obama, and bestselling books by Margaret Atwood, Tara Westover, Lee Child, Jamie Oliver, Jeff Kinney, and Dr. Seuss.

In December 2019, the Group announced the sale of its remaining 25% interest in PRH. The sale is expected to complete in the first half of 2020. At the end of December our share of the assets of PRH has been classified as held for sale on the balance sheet.

Results of operations

Year ended December 31, 2018 compared to year ended December 31, 2017

Consolidated results of operations

Sales

The Group's total sales decreased from £4,513m in 2017 to £4,129m in 2018, a decrease of £384m or 9%. The year on year movement was impacted by exchange rates, primarily the comparative strength of the US dollar relative to sterling during the year. In 2018, currency movements decreased sales by £134m when compared to the equivalent figures at constant 2017 rates. When measured at 2017 constant exchange rates, the Group's sales declined by 6%. Part of the decrease is due to the absence of sales from businesses sold during the year offset by the £9m additional sales recorded as a result of adopting IFRS 15. The Group estimates that after excluding the impact of disposals and the adoption of IFRS 15, sales declined by 1% at constant exchange rates.

North America sales decreased by £145m or 5% from £2,929m in 2017 to £2,784m in 2018. The Group estimates that after excluding the impact of exchange, the contribution from businesses disposed in 2017 and 2018, and the impact of adopting IFRS 15, North America sales declined by 1% in 2018 compared to 2017. This decline was primarily due to North American Higher Education Courseware which declined 5%, School Courseware which was down 4%, impacted by weak Open Territory sales in the second half of the year, the continued decline in Learning Studio as that product moved towards retirement in 2019 and Student Assessment which declined moderately. Offsetting that, was good growth in Virtual Schools, Online Program Management (OPM) and Professional Certification revenue. North America was the most significant source of the Group's sales and as a proportion of sales contributed 67% in 2018 and 65% in 2017.

Core sales decreased by £9m or 1% from £815m in 2017 to £806m in 2018. The Group estimates that after excluding the impact of exchange rates, the contribution from businesses disposed in 2018 and the impact of adoption of IFRS 15, Core sales were flat when comparing 2018 and 2017. Sales growth in Pearson Test of English Academic, OPM in the UK and Australia and Professional Certification were offset by declines in Higher Education and Student Assessment and Qualifications.

Growth sales decreased by £230m from £769m in 2017 to £539m in 2018 principally due to the lost contribution in China following the disposal of GEDU in 2017 and WSE in 2018. The Group estimates that after excluding the impact of exchange rates, the contribution from businesses disposed and the impact of adoption of IFRS 15, Growth sales increased by 1% when comparing 2018 and 2017. Strong growth in China and modest growth in Brazil and Hispano-America were partially offset by declines in South Africa following a large one-off order in 2017.

Cost of goods sold and operating expenses

The following table summarizes the Group's cost of sales, net operating expenses and impairment of intangible assets:

	Year ended December 31	
	2018	2017
	£m	£m
Cost of goods sold	1,943	2,066
Operating expenses:		
Distribution costs	88	84
Selling, marketing and product development costs	759	896
Administrative and other expenses	1,039	1,207
Restructuring costs	90	79
Other income	(69)	(64)
Total net operating expenses	1,907	2,202
Other net gains	(230)	(128)
Total continuing operations	<u>3,620</u>	<u>4,140</u>

Cost of goods sold. Cost of sales consists of costs for raw materials, primarily paper, printing and binding costs, amortization of pre-publication costs, royalty charges, the cost of service provision in the assessment and testing business and the cost of teaching and facilities in direct delivery businesses. The Group's cost of sales decreased by £123m, or 6%, from £2,066m in 2017, to £1,943m in 2018. The decrease largely reflects the decrease in sales but also includes some continuing benefit from restructuring. Cost of sales as a percentage of sales increased largely as a result of the mix effect caused by the disposal of businesses with generally higher gross margins than Pearson as a whole. Cost of sales was 47.1% of sales in 2018 compared to 45.8% in 2017.

Distribution costs. Distribution costs consist primarily of shipping costs, postage and packing. Distribution costs increased by £4m reflecting some one-off costs in the Core business relating to a change in distribution arrangements in 2018.

Selling, marketing and product development costs. The Group's selling, marketing and product development costs decreased by £137m or 15% from £896m in 2017 to £759m in 2018. The decrease is partly explained by the absence of costs from businesses disposed and restructuring savings realized in the year. As a percentage of sales, these costs decreased in 2018 from 19.9% in 2017 to 18.4% in 2018.

Administrative and other expenses. The Group's administrative and other expenses decreased by £168m or 13.9% from £1,207m in 2017 to £1,039m in 2018. This decrease is explained by reductions in intangible amortization relating to past acquisitions, the absence of costs from businesses disposed and the impact of restructuring savings particularly in enabling functions partly offset by continuing investment in technology.

Restructuring costs. Restructuring costs of £90m in 2018 and £79m in 2017 relate to the 2017-2019 restructuring program announced in May 2017. This program began in the second half of 2017 and costs incurred were £79m in 2017 and £90m (excluding restructuring costs related to associates) in 2018 relating to delivery of cost efficiencies in enabling functions and the US higher education courseware business together with further rationalization of the property and supplier portfolio. The restructuring costs in 2018 relate predominantly to staff redundancies and the net cost of property rationalization. Included in the property rationalization in 2018 is the impact of the consolidation of the Group's property footprint in London which resulted in a charge for onerous leases of £91m partially offset by profit from the sale of property of £81m.

Other income. Other operating income mainly consists of freight recharges, sub-rights and licensing income, distribution commissions, investment income and gains on minor asset disposals together with the service fee income from Penguin Random House. Other operating income increased to £69m in 2018 compared to £64m in 2017 mainly due to increased rights income and recoveries following legal settlements.

Other net gains and losses. Other net gains and losses relate to the sale of businesses and in 2018 these gains amounted to £230m and result from the sale of the Wall Street English language teaching business (WSE), realizing a gain of £207m, the disposal of the equity interest in UTEL, the online University partnership in Mexico, realizing a gain of £19m, and various other smaller disposal items realizing a net gain of £4m. Other net gains and losses in 2017 include the sale of the Group's test preparation business in China, which resulted in a pre-tax profit on sale of £44m, the sale of a 22% share in PRH, which resulted in a pre-tax profit on sale of £96m and net losses of £12m relating to other smaller disposals.

Share of results of joint ventures and associates

The contribution from the Group's joint ventures and associates decreased by £34m to £44m in 2018 from £78m in 2017. The decrease is mainly due to the sale of 22% of PRH in 2017 which resulted in a lower share of profits for the final quarter of 2017 and the whole of 2018. In addition, there were restructuring costs incurred at PRH and in respect of the Group's ACT Aspire joint venture in 2018 that were absent in 2017.

Operating profit

In 2018, the Group reported an operating profit of £553m compared to an operating profit of £451m in 2017. The increase in profit of £102m mainly reflects an increase in gains on disposal and reduced intangible charges which more than offset increased restructuring, the lost contribution from businesses disposed and the impact of currency movements. After stripping out the effect of gains on the sale of businesses, reduced intangible charges, increased restructuring costs and one-off pension related charges, profits from trading declined by around £30m. This trading decline was primarily due to currency movements and the lost contribution from businesses disposed which offset the increased year on year benefit from restructuring savings.

Net finance costs

Net interest payable decreased from £79m in 2017 to £24m in 2018. The decrease was primarily due to a reduction in gross debt achieved through the early redemption of bonds in 2017 and in early 2018. Charges relating to early redemptions increased finance charges in 2017 but were not as significant in 2018. Additionally, there was a reduction in interest on tax provisions following reassessment of those provisions in 2018. In February 2018, the Group bought back an aggregate nominal amount of €450,000,000 of 2021 and 2025 notes. There was a charge in respect of these early redemptions however there were partial year savings as a result which have flowed through the income statement in the period since redemption. In March and November 2017 respectively, the Group redeemed the \$550m 6.25% Global dollar bonds and \$300m 4.625% US dollar notes, both originally due in 2018. In addition, in August 2017, the Group redeemed \$383m out of the \$500m 3.75% US dollar notes due in 2022 and \$406m out of the \$500m 3.25% US dollar notes due in 2023. The charge in respect of these early redemptions was booked in 2017 with partial year savings in 2017 and the full annualized savings coming through in 2018.

Other net finance costs are finance income and costs on retirement benefits, foreign exchange, interest costs relating to acquisition consideration and other gains and losses on derivative financial instruments. In 2017 the total of these items was a gain of £49m compared to a loss of £31m in 2018. Income relating to employee benefit plans was £8m higher in 2018 than in 2017 reflecting the higher net surplus on pension balances at the beginning of 2018 compared to the beginning of 2017. Other losses in 2018 primarily relate to foreign exchange differences on un-hedged cash and cash equivalents, and other financial instruments that generated gains in 2017.

For a more detailed discussion of the Group's borrowings and interest expenses see "— Liquidity and Capital Resources — Capital Resources" and "— Borrowings" below and "Item 11. Quantitative and Qualitative Disclosures about Market Risk".

Taxation

The reported tax credit in 2018 was £92m (18.5%) compared to a charge of £13m (3.1%) in 2017. The movement in the tax rate mainly reflects several one-off benefits in 2018 including provision releases due to the expiry of relevant statutes of limitation and due to the reassessment of historical positions including those relating to prior year disposals (£111m), as well as a one off benefit from a reassessment of the tax treatment of certain items of income and expenditure (£25m). The provision releases in 2018 were more significant than they had been in 2017 although in 2017 these releases partly explain a lower tax rate than might be expected given the national tax rates that the group is exposed to. As a result of US tax reform, the reported tax charge in 2017 includes a benefit from revaluation of deferred tax balances to the reduced federal rate of £5m and a repatriation tax charge of £6m.

Discontinued operations

There were no discontinued operations in either 2017 or 2018.

Profit for the year

The profit for the financial year in 2018 was £590m compared to a profit in 2017 of £408m. The increased profit reflects increased operating profit and tax credits offset by higher net finance costs as set out above.

Earnings per ordinary share

The basic earnings per ordinary share, which is defined as the profit for the financial year divided by the weighted average number of shares in issue, was 75.6p in 2018 compared to 49.9p in 2017 based on a weighted average number of shares in issue of 778.1m in 2018 and 813.4m in 2017. The increase in earnings per share was due to the increase in profit for 2018 as described above and was also due to the decrease in the number of weighted average number of shares following the share buyback during late 2017 and early 2018.

The diluted earnings per ordinary share was 75.5p in 2018 and 49.9p in 2017, with the dilutive effect of options being minimal.

Exchange rate fluctuations

Currency movements decreased sales by £134m and decreased the operating profit by £17m. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk" for a discussion regarding the Group's management of exchange rate risks.

Sales and operating profit by segment

The following tables summarize the Group's sales and adjusted operating profit for each of the Group's business segments. Adjusted operating profit is included as it is the key financial measure used by management to evaluate the performance of the Group and allocate resources to business segments over time by separating out those items of income and expenditure relating to acquisitions and disposals, major restructuring programs and certain other items that are not representative of underlying performance. Reconciliations of adjusted operating profit to statutory operating profit are included below and in note 2 within Item 18 — Financial Statements.

In the Group's adjusted operating profit, it has excluded other net gains and losses, acquisition related costs, amortization and impairment of acquired intangibles and the cost of major restructuring programs. In 2018, the Group has also excluded the impact of adjustments arising from clarification of guaranteed minimum pension (GMP) equalization legislation in the UK and in 2017, excluded the impact of US tax reform on associate operating profit. The intangible charges relate only to intangible assets acquired through business combinations and acquisition costs are the direct costs of acquiring those businesses. The Group does not believe these charges are relevant to an understanding of the underlying performance. Charges relating to acquired intangible assets are non-cash charges that reflect the historical expenditure of the acquired business. These acquired intangible assets continue to be supported by ongoing expenditure that is reported within adjusted operating profit. Other net gains and losses that represent profits and losses on the sale of subsidiaries, joint ventures, associates and other financial assets are also excluded from adjusted operating profit as it is important to highlight their impact on operating profit, as reported, in the period in which the disposal transaction takes place in order to understand the underlying trend in the performance of the Group. The GMP equalization charge arises from the ruling in the Lloyds Bank High Court case in the UK in October 2018 that provided clarity on how pension plans should equalize GMP between males and females. The case ruling results in an income statement charge, an additional liability and the potential requirement to make back-payments to pensioners who may have been retired for some years. The Group has excluded this charge from adjusted earnings as it relates to historical circumstances. The charge is an estimate based on available data and revisions to these estimates in future years will be treated as assumption changes and recorded in other comprehensive income rather than the income statement. US tax reform in 2017 resulted in the revaluation of deferred tax balances in associates. These revaluations have been excluded from adjusted earnings in 2017 due to their one-off nature.

A reconciliation of operating profit to adjusted operating profit for continuing operations is included in the tables below:

	Year ended December 31, 2018				
	North America	Core	Growth	PRH	Total
	£m	£m	£m	£m	£m
Sales	2,784	806	539	—	4,129
	67%	20%	13%	—	100%
Total operating profit	216	25	266	46	553
Add back:					
Cost of major restructuring	78	16	—	8	102
Intangible charges	72	8	19	14	113
Other net gains and losses	(4)	—	(226)	—	(230)
UK pension GMP equalization	—	8	—	—	8
Total adjusted operating profit	<u>362</u>	<u>57</u>	<u>59</u>	<u>68</u>	<u>546</u>
	66%	10%	11%	13%	100%

	Year ended December 31, 2017				
	North America	Core	Growth	PRH	Total
	£m	£m	£m	£m	£m
Sales	2,929	815	769	—	4,513
	65%	18%	17%	—	100%
Total operating profit	242	27	28	154	451
Add back:					
Cost of major restructuring	60	11	8	—	79
Intangible charges	89	12	37	28	166
Other net gains and losses	3	—	(35)	(96)	(128)
Impact of US tax reform	—	—	—	8	8
Total adjusted operating profit	<u>394</u>	<u>50</u>	<u>38</u>	<u>94</u>	<u>576</u>
	68%	9%	7%	16%	100%

North America

Sales in North America decreased by £145m or 5% from £2,929m in 2017 to £2,784m in 2018 and adjusted operating profit decreased by £32m, or 8%, from £394m in 2017 to £362m in 2018. The Group estimates that after excluding the impact of exchange, the contribution from businesses disposed in 2018 and 2017 and the impact of adopting IFRS 15, North America sales declined by 1% in 2018 compared to 2017 and adjusted operating profit increased by 1%. The sales decline was primarily due to North American Higher Education Courseware declining 5%, School Courseware which was down 4%, impacted by weak Open Territory sales in the second half of the year, the continued decline in Learning Studio as the product moved towards the retirement in 2019 and Student Assessment which declined moderately. Offsetting that, was good growth in Virtual Schools, Online Program Management (OPM) and Professional Certification revenue. The adjusted operating profit benefited from restructuring savings which more than offset the impact of lower sales, inflation and other operating factors.

The North America results also include £78m in 2018 and £60m in 2017 in respect of the 2017-2019 restructuring program. Amortization relating to acquired intangibles was £72m in 2018 compared to £89m in 2017 and there were net gains on business disposals of £4m and net losses of £3m in 2017. None of the disposals in either 2018 or 2017 were material. Overall adjusted operating margins in the North America business decreased in 2018 to 13.0% compared to 13.5% in 2017 due to sales mix offset partly by restructuring savings.

North America — courseware

In School Courseware, revenue declined primarily due to declines in Open Territory states. This was partially offset by growth in Adoption state revenue on strong performance in Science in Florida, South Carolina and Tennessee, Elementary Math in Oklahoma and Elementary Social Studies in California and South Carolina. The Group's new adoption participation rate rose to 80% in 2018 from 61% in 2017 and the Group won an estimated 33% share of adoptions competed for (38% in 2017) and 26% of total new adoption expenditure of \$509m (29% of \$365m in 2017).

In Higher Education Courseware, total US college enrolments, as reported by the National Student Clearinghouse, fell 1.4%, with combined two-year public and four-year for-profit enrolments declining 4.8%. Enrolment weakness was particularly focused on part-time students where enrolment declined 2.9% compared to full-time enrolment which declined 1.1%. Net revenue in the US Higher Education Courseware business declined. Enrolment weakness was particularly focused on part-time students where enrolment declined 2.9% compared to full-time enrolment which declined 1.1%. Net revenue in the US Higher Education Courseware business declined 5% during the year. The Group estimates that around 2% of this decline was driven by lower

enrolment; around 1.5% from the adoption of Open Educational Resources (OER); around 2.5% from the combined impact of shifts in the secondary market, more cautious buying by the channel and lower returns; offset by around a 1% benefit from the shift to digital. In 2018, Pearson's US Higher Education Courseware market share, as reported by MPI, was within the 40-41.5% range seen over the previous five years.

Digital revenue grew 2% benefiting from continued growth in direct sales and favorable mix. Global digital registrations of MyLab and related products were flat. In North America, digital registrations fell 3% with good growth in Science, Business & Economics and Revel offset by lower overall enrolment and continued softness in Developmental Mathematics. Revel registrations grew more than 40%. Including stand-alone eBook registrations, total North American digital registrations rose 1% and global registrations rose 3%.

The actions announced in early 2017 to promote access over ownership met with continued success. Stand-alone eBook volumes grew 34% in the US with revenue up 25% and the partner print rental program has had a successful start with 130 titles in the program in 2018.

The North America business continued to make good progress with the Inclusive Access (Direct Digital Access) solutions product signing 192 new institutions in 2018, taking the total of not-for-profit and public institutions served to 617. Including 80 longer-standing contracts with for-profit colleges, there are now direct courseware relationships with nearly 700 institutions. Inclusive Access ensures that students have affordable access to the courseware that they need on day one of the course, whilst further shifting the Group's business model in this segment away from ownership and towards subscription. During the 2018, the business delivered over 1.4m course enrolments with inclusive access revenues from non-profit and public institutions rising to c.8% of the higher education courseware revenue as more colleges and faculties saw the benefit of this model.

North America — assessment

In Student Assessment, revenue declined moderately in 2018 due to the faster than expected contraction in revenue associated with the PARCC and ACT-Aspire multi-state volume-based contracts and a more disciplined competitive approach. During 2018, Pearson successfully renewed contracts in Arizona and Kentucky through competitive procurements and secured business with the District of Columbia, New Jersey, New Mexico, and Maryland under new contracts with these PARCC states. The business also won new contracts for Utah's High School Assessments and with the University of Iowa for the delivery of Iowa's new assessment system.

In 2018, the Group delivered 24m standardized online tests to K12 students, down 5% from 2017. TestNav 8, Pearson's next-generation online test platform, supported a peak load of 825,000 tests in a single day and provided 99.99% up time. The AI scoring systems scored 36m responses to open-ended test items, around 33% of the total. Paper based standardized test volumes fell 9% to 18.5m.

In Professional Certification, VUE global test volume rose 4% to over 15m. Revenue in North America was up due to growth in medical college admissions testing and certification for professional bodies, offset by continued declines in volumes in the GED High School Equivalency Test and higher-level IT certifications in an environment of low unemployment.

The business signed over 70 new contracts in 2018 and the renewal rate on existing contracts continued to be over 95%. During the year, over 80 contracts were renewed including the National Council of State Boards of Nursing (NCLEX exam), Microsoft and Adobe. Clinical Assessment sales declined slightly on an absence of new major product introductions. Late in 2018 the Group launched a refresh of the Peabody Picture Vocabulary Test and Expressive Vocabulary Test (PPVT/EVT). Q-interactive, Pearson's digital solution for Clinical Assessment administration, saw continued strong growth in license sales with sub-test administrations up more than 37% over the same period last year.

North America — services

Connections Academy, the K12 online school business grew revenue 8%. Connections Academy served 73,000 Full Time Equivalent (FTE) students through 37 continuing full-time virtual partner schools in 28 states, up 11% on last year. Total FTE virtual school students declined 3% to 75,400 as expected due to contract exits at Commonwealth Charter Academy in Pennsylvania and Florida Virtual School. Three new full-time online, state-wide partner schools opened in the 2018-19 school year in Florida, Michigan, and Ohio. The 2018 Connections Academy Parent Satisfaction Survey continued to show solid endorsement for the schools with 93% of families with enrolled students stating they would recommend Connections virtual schools to others and 95% agreeing that the curriculum is of high quality.

In Pearson Online Services, revenue grew 3%, primarily due to growth in OPM, partially offset by a decline in Learning Studio revenue as the product is retired and declines as smaller non-OPM contracts were restructured. In OPM, revenue grew 9% as course registration grew strongly, up 14% to more than 388,000, in programs at key partners including Arizona State University Online, Maryville University, Regis College, Bradley University, Ohio University and the University of Southern California. The overall active program count grew by 33 to 325. The launch of 46 new programs were offset by 13 discontinued programs. During 2018, 27 new multi-year programs were signed including programs at new partners the University of North Dakota and Rider University. The business closed nine out of 15 renewal opportunities and as part of broader efforts around portfolio optimization agreed with partners to terminate 23 programs that were not mutually viable.

Core

Sales in Core markets decreased by £9m, or 1%, from £815m in 2017 to £806m in 2018 while adjusted operating profit increased by £7m, or 14%, from £50m in 2017 to £57m in 2018. At constant exchange and after excluding the contribution from disposals, Core sales were flat year on year and profits increased by 10%. Growth in Pearson Test of English Academic, OPM in the UK and Australia and Professional Certification was offset by declines in Higher Education and Student Assessment and Qualifications.

The increase in adjusted operating profit was mainly due to restructuring savings partly offset by cost inflation. Also included in the Core statutory operating profit were restructuring costs of £16m in 2018 and £11m in 2017 and amortization of acquired intangibles of £8m in 2018 and £12m in 2017. The statutory operating profit in 2018 also includes the one-off £8m charge in respect of guaranteed minimum pension (GMP) equalization in the UK. The GMP equalization charge arises from the ruling in the Lloyds Bank High Court case in the UK in October 2018 that provided clarity on how pension plans should equalize GMP between males and females. The case ruling results in an income statement charge, an additional liability and the potential requirement to make back- payments to pensioners who may have been retired for some years.

Core — courseware

Courseware revenue declined moderately. Slight growth in School Courseware was offset by declines in Higher Education Courseware. In Higher Education Courseware, revenue was down due to market declines in Europe and Asia, partially offset by growth in digital sales to institutional partners in the UK and Australia.

Core — assessments

In Student Assessment and Qualifications, revenue fell as modest growth in BTEC Firsts and GCE A-Level was more than offset by declines in AS levels, international GCSEs in the UK and UK Apprenticeships due to policy changes in the schools' qualifications and the apprenticeships market. The business successfully delivered the National Curriculum Test (NCT) for 2018, marking 3.6m scripts, up slightly from 2017.

Clinical Assessment sales declined, primarily in Australia, due to an absence of new major product introductions. Q-Interactive, Pearson's digital solution for Clinical Assessment administration, saw continued

strong growth. Pearson Test of English Academic also saw continued strong growth in test volumes and successfully extended its agreement with the Department of Home Affairs in Australia for another two years. In Professional Certification, revenue was up modestly due to the launch of additional computer-based exams for an existing customer in the UK and the MOI, the French Driving Test.

Core — services

In Higher Education Services, revenue grew strongly. OPM revenue was up 34%. In Australia, there was good growth due to the successful partnership with Monash University, and continued success of the Graduate Diploma in Psychology. There was a total of around 10,200 course registrations across the seven programs in Australia up from around 9,300 in 2017. In the UK, there were 11 new programs launched and course registrations grew, reaching around 3,000 compared to around 1,400 in 2017. During the year, new partnerships with the University of Northumbria in the UK, and ESSEC Business School in France were announced.

Growth

Growth sales decreased by £230m, to £539m in 2018 from £769 in 2017. Adjusted operating profit increased by £21m or 55% to £59m in 2018 from £38m in 2017. The Group estimates that, after excluding the impact of exchange rates and the incremental contribution from businesses disposed in 2018 and 2017, sales were up 1% year on year. Strong growth in China and modest growth in Brazil and Hispano America were partially offset by declines in South Africa following a large one-off order in 2017.

The adjusted operating profit increase reflected the higher revenue and benefits of current and prior year restructuring. The Group's statutory operating profit included restructuring costs of £8m in 2017. In 2018 restructuring costs were offset by credits to leave a net charge of nil in 2018. Also included in the statutory operating profit was amortization of acquired intangibles of £19m in 2018 and £37m in 2017 and gains on business disposals. In 2018 these gains amounted to £226m and result from the sale of the Wall Street English language teaching business (WSE), realizing a gain of £207m and the disposal of the equity interest in UTEL, the online University partnership in Mexico, realizing a gain of £19m. Gains in 2017 of £35m include the sale of the Group's test preparation business in China.

Growth — courseware

Courseware revenue grew slightly, with strong growth in English Language Courseware in China, partially offset by declines in School Courseware in South Africa following a large one-off order in 2017.

Growth — assessments

Professional Certification grew well due to a new ICT infrastructure certification contract. Pearson Test of English Academic saw strong growth in revenue with over 10% growth in the volume of tests taken in India, China and the Middle East and moderate price increases.

Growth — services

In English Services, revenue grew slightly in the English language school franchise, Wizard, due to new product launches. In School Services, revenue was flat, with declines in student enrolment in the public sistemas business in Brazil offset by price increases, improved products and better student retention across the Group's private sistemas. In India, Pearson MyPedia, an inside service 'sistema' solution for schools, expanded to over 700 schools with over 200,000 learners. In Higher Education services revenue declined slightly due to business exits in India and slight revenue decline at Pearson Institute of Higher Education (formerly CTI), the university business in South Africa, due to a change in mix with total enrolment broadly flat and new student enrolment up 18%.

Penguin Random House

The Group owns 25% of Penguin Random House, the first truly global consumer book publishing company. The Group owned 47% until October 5, 2017, when it completed the sale of 22% to Bertelsmann. The Group's share of Penguin Random House adjusted operating profits were £68m in 2018 compared to £94m in 2017, the decrease is primarily due to the reduced contribution following the sale of part of the Group's share.

Penguin Random House performed solidly with underlying revenue growth on increased audio sales and stable print sales, whilst the business benefitted from international bestseller "Becoming" by Michelle Obama, the year's top-selling U.S. title, and bestsellers from Bill Clinton & James Patterson, Jordan Peterson, Jamie Oliver, Dr. Seuss, John Grisham, and Lee Child.

Liquidity and capital resources

Cash flows and financing

Net cash generated from operations decreased to £480m in 2019 from £547m in 2018. The decrease in cash generated from operations was largely due to increased investment in pre-publication and other increases in working capital, including the impact of reduced staff incentives, together with increased restructuring spend and the absence of a contribution from the K12 business following its disposal in the first half of 2019. These decreases were partially offset by the impact of IFRS 16 which reclassified lease cash flows as financing, investment and interest items rather than as cash flows from operations as was previously the case.

Net interest paid at £64m in 2019 compares to £22m in 2018 and reflects the adoption of IFRS 16 and the incorporation of lease interest for the first time as referred to above. Tax paid in 2019 was £30m compared to £43m in 2018 with the decrease mainly explained by a refund received in the US relating to historical periods together with no US tax being paid in relation to 2019 as a result of the tax loss on the sale of the US K12 business. In addition to the refund in the US in 2019, there was tax paid to the Chinese tax authorities following the disposal of WSE during 2018 and New York state and city taxes paid in the US as a result of a settlement with the tax authorities relating to past disposals.

Capital expenditure on property, plant and equipment was £55m in 2019 compared to £70m in 2018. Proceeds from the sale of property in 2018 of £128m includes proceeds from the sale of the Group's London property as part of the restructuring program. There were no material property sales in 2019. Capital expenditure on software intangibles increased from £130m in 2018 to £138m in 2019. The expenditure on both tangible and intangible capital includes the continuing investment in enabling function technology designed to lower administrative costs.

Cash outflow from acquisitions including £40m of additional capital invested in PRH in 2019 was £97m compared to £15m in 2018 relating to investment purchases and prior year acquisitions. There were two small acquisitions in 2019, Lumerit and Smart Sparrow which together accounted for £40m of cash consideration with the balance of the cash outflow on acquisitions in 2019 being in relation to investments and prior year items. The net cash inflow in respect of businesses and investments disposed was £107m in 2018 compared to a net outflow of £96m in 2019. In 2018 the cash received largely related to proceeds from the sale of WSE and UTEL. In 2019 the cash outflow mainly relates to the K12 business and reflects the deferral of proceeds and the level of working capital in the business at the disposal date.

Dividends from joint ventures and associates decreased from £117m in 2018 to £64m in 2019. The reduction is primarily due to the impact of the PRH sale transaction in 2017 which resulted in a reduced equity share from 47% to 25% and involved recapitalization dividends which were £50m in 2018.

The cash outflow from financing of £102m in 2019 compares to £729m in 2018 and includes the repayment of borrowings of £48m in 2019 and £441m in 2018. These repayments include the early redemption of various

bonds (and their associated swaps). In March 2019, the Group executed market tenders to repurchase €55m of its €500m 1.875% notes due 2021 of which €250m were outstanding at 31 December 2018. In January 2018, the Group repurchased €250m of its €500m Euro 1.875% Notes due May 2021 and €200m of its €500m Euro 1.375% Notes due May 2025. Also included in financing cash flows are repayments of lease liabilities which increased from £4m in 2018 to £91m following the adoption of IFRS 16. In 2019, the Group announced the refinancing of its bank facility, reducing its size to \$1.19bn and extending its maturity date to February 2024. Drawings of £230m representing a financing cash inflow in 2019 were outstanding on this facility at the end of December 2019. Dividends paid to company shareholders in 2019 of £147m compares to £136m in 2018. Cash returned to shareholders via the share buyback program, announced in October 2017 and completed in February 2018, amounted to £153m in 2018. Treasury share purchases in 2019 in respect of employee share plans were £52m. There were no purchases of treasury shares for this purpose in 2018.

Overall the Group's net borrowings increased from £143m at the end of 2018 to £1,016m at the end of 2019. In addition to the cash flows referred to above, the adoption of IFRS 16 added £666m of net debt on transition after taking account of both lease liabilities and the investment in finance lease receivable brought on balance sheet at 1 January 2019.

Capital resources

The Group's borrowings fluctuate by season because of the school year's effect on the working capital requirements in the educational materials business. Assuming no acquisitions or disposals, the Group's maximum level of net debt normally occurs in July, and its minimum level of net debt normally occurs in December.

In March 2020, the Group has reassessed its funding requirements considering the impact of the COVID-19 pandemic on the business. As a result of the pandemic the Group anticipates that there will be an impact on profit and cash flows in 2020 as set out in the outlook section above. The impact has been modelled under several scenarios to ensure that the likelihood of a prolonged period of disruption has been appropriately considered in assessing the availability of funding to the Group and the ability of the Group to comply with its banking covenants. The modelling includes a severe reduction in revenue, profit and operating cash flow that extends from March into the second and third quarters of 2020 with conditions returning to normal in the course of the fourth quarter. At the end of February 2020, the Group had significant financial headroom with approximately £1bn in total liquidity immediately available from cash and its Revolving Credit Facility. In response to the uncertainty, the Group paused its share buyback program on 23 March 2020 having purchased £167m of shares of the £350m originally planned. Based on the review of potential impacts to the business from the pandemic and a review of historical trends in working capital requirements and of forecast balance sheets for the next 12 months, the Group believes that it will comply with its banking covenants and has sufficient funds available for the Group's present requirements, with an appropriate level of headroom given its portfolio of businesses and current plans. The Group's ability to expand and grow its business in accordance with current plans and to meet long-term capital requirements beyond this 12-month period will depend on many factors, including the rate, if any, at which its cash flow changes and the availability of public and private debt and equity financing, including its ability to secure bank lines of credit. The Group cannot be certain that additional financing, if required, will be available on favorable terms, if at all.

At December 31, 2019, the Group's net debt was £1,016m compared to £143m at December 31, 2018. The main reason for the increase was the adoption of IFRS 16 which added £666m of net debt on transition after taking account of both lease liabilities and the investment in finance lease receivable brought on balance sheet at 1 January 2019. The remaining decrease in net debt was principally due to cash outflows from acquisition and disposal activity, purchase of fixed assets and treasury shares and the payment of dividends which more than offset cash generated from operations.

Net debt is defined as all short-term, medium-term and long-term borrowing (including leases and related derivatives), less all cash, cash equivalents, other liquid resources and the net investment in finance lease receivables. Cash equivalents comprise short-term deposits with a maturity of up to 90 days, while liquid resources comprise short-term deposits with maturities of more than 90 days and other marketable instruments which are readily realizable and held on a short-term basis. Total short-term, medium-term and long-term borrowing excluding derivatives amounted to £1,664m at December 31, 2019, compared to £720m at December 31, 2018 reflecting the adoption of IFRS 16, drawings on the revolving credit facility and reductions due to bonds repaid during the year. At December 31, 2019, total cash and liquid resources were £437m, compared to £568m at December 31, 2018. This decrease reflects the utilization of cash to pay down long-term debt and create a more efficient balance sheet.

Contractual obligations

The following table summarizes the maturity of the Group's borrowings, its obligations under non-cancellable leases, deferred consideration and pension funding obligations, exclusive of anticipated interest payments. Due to the variability of future interest payments, these have been excluded from the table below.

	Year ended December 31, 2019				
	Total	Less than one year	One to Two years	Two to five years	After five years
	£m	£m	£m	£m	£m
Gross Borrowings:					
Bank loans and overdrafts	3	3	—	—	—
Revolving credit facility	230	—	—	230	—
Bonds	593	—	170	161	262
Lease liabilities	838	89	81	218	450
Deferred consideration	36	5	5	15	11
UK pension funding obligation	—	—	—	—	—
Total	<u>1,700</u>	<u>97</u>	<u>256</u>	<u>624</u>	<u>723</u>

The UK pension plan's most recent triennial actuarial valuation for funding purposes was completed as at 1 January 2018 and this valuation revealed a technical provision funding surplus of £163m. The plan expects to be able to provide benefits (in accordance with the plan rules) with a very low level of reliance on future funding from the Group.

At December 31, 2019 the Group had no capital commitments for fixed assets. There are contingent liabilities in respect of indemnities, warranties, legal and royalty claims and guarantees in relation to former subsidiaries and in respect of guarantees in relation to subsidiaries and associates. In addition, there are contingent liabilities in respect of tax assessments as outlined in note 34 in "Item 18. Financial statements". None of these claims, guarantees or assessments is currently expected to result in a material gain or loss.

Off-balance sheet arrangements

The Group does not have any off-balance sheet arrangements, as defined by the SEC for the purposes of Form 20-F, that have or are reasonably likely to have a material current or future effect on the Group's financial position or results of operations.

Borrowings

The Group finances its operations by a mixture of cash flows from operations, short-term borrowings from banks and commercial paper markets, and longer-term loans from banks and capital markets.

At December 31, 2019, the Group had a \$1.19bn committed revolving credit facility with a maturity date in February 2024. At December 31, 2019, £230m of the \$1.19bn credit facility had been drawn. The facility set in place in March 2019, contains two key covenants measured for each 12-month period ending June 30 and December 31:

The Group must maintain the ratio of its profit before interest, tax and amortization to its net interest payable at no less than 3:1; and must maintain the ratio of its net debt to its EBITDA at no more than 4:1. “EBITDA” refers to earnings before interest, taxes, depreciation and amortization. The Group is currently in compliance with these covenants.

See note 18 of “Item 18. Financial Statements” for information on the Group’s longer-term loans from banks and capital markets.

Treasury policy

The Group’s treasury policy is described in note 19 of “Item 18. Financial Statements”. For a more detailed discussion of the Group’s borrowing and use of derivatives, see “Item 11. Quantitative and Qualitative Disclosures about Market Risk”.

Related parties

There were no significant or unusual related party transactions in 2019, 2018 or 2017. Refer to note 36 in “Item 18. Financial Statements”.

Accounting policies

For a description of the Group’s principal accounting policies used refer to note 1 in “Item 18. Financial Statements”.

ITEM 6. DIRECTORS, SENIOR MANAGEMENT AND EMPLOYEES

Directors and senior management

The Group is managed by a board of directors and a chief executive who reports to the board and manages through an executive committee. The Group refers to the board of directors, the chair of the board of directors and the executive committee as its “senior management”.

The following table sets forth information concerning directors, as of February 29, 2020.

<u>Name</u>	<u>Age</u>	<u>Position</u>
Sidney Taurel	71	Chair
John Fallon	57	Chief Executive
Dame Elizabeth Corley, DBE	63	Non-executive Director
Sherry Coutu, CBE	56	Non-executive Director
Vivienne Cox, CBE	60	Senior Independent Director
Josh Lewis	57	Non-executive Director
Graeme Pitkethly	53	Non-executive Director
Linda Lorimer	67	Non-executive Director
Michael Lynton	60	Non-executive Director
Tim Score	59	Non-executive Director
Lincoln Wallen	59	Non-executive Director
Coram Williams	46	Chief Financial Officer

Sidney Taurel

Appointed January 1, 2016. Member of the nomination & governance and remuneration committees.

Sidney has over 45 years of experience in business and finance, and is currently a Director of IBM Corporation, where he also serves on the directors and corporate governance committee. Sidney is an advisory board member at pharmaceutical firm Almirall. He was Chief Executive Officer of global pharmaceutical firm Eli Lilly and Company from 1998 until 2008, Chairman from 1999 until 2008, and has been Chairman Emeritus since 2009. He was also a Director at McGraw Hill Financial, Inc., a role which he held from 1996 until April 2016 and at ITT Industries from 1996 to 2001. In 2002, Sidney received three US presidential appointments to: the Homeland Security Advisory Council, the President’s Export Council and the Advisory Committee for Trade Policy and Negotiations, and is an officer of the French Legion of Honour. Current notable commitments: IBM Corporation.

John Fallon

Appointed October 3, 2012.

John became Pearson's Chief Executive on 1 January 2013. Since 2008, he had been responsible for the Company's education businesses outside North America and a member of the Pearson management committee. He joined Pearson in 1997 as Director of Communications and was appointed President of Pearson Inc. in 2000. In 2003, he was appointed CEO of Pearson's educational publishing businesses for Europe, Middle East & Africa. Prior to joining Pearson, John was Director of Corporate Affairs at Powergen plc and was also a member of the company's executive committee. Earlier in his career, John held senior public policy and communications roles in UK local government. John is also President of the London Chamber of Commerce & Industry (LCCI). John has announced his intention to retire from Pearson during 2020.

Dame Elizabeth Corley, DBE

Appointed May 1, 2014. Chair of the remuneration committee and member of the audit and nomination & governance committees.

Elizabeth has extensive experience in the financial services industry having been CEO of Allianz Global Investors, initially for Europe then globally, from 2005 to 2016, and was a senior adviser to the firm until the end of December 2019. She was previously at Merrill Lynch Investment Managers and Coopers & Lybrand. Elizabeth is a Non-Executive Director of BAE Systems plc and Morgan Stanley Inc. Elizabeth is active in representing the investment industry and developing standards within it. She is a member of the Committee of 200. She was appointed Dame Commander of the Order of the British Empire in the Queen's Birthday Honours in 2019 for her services to the economy and financial services. Current notable commitments: BAE Systems plc (Non-Executive Director), Morgan Stanley Inc. (Non-Executive Director).

Vivienne Cox, CBE

Appointed on January 1, 2012. Chair of the nomination & governance committee and member of the audit and reputation & responsibility committees.

Vivienne has wide experience in energy, natural resources and business innovation. She worked for BP plc for 28 years in global roles including Executive Vice President and Chief Executive of BP's gas, power and renewables business and its alternative energy unit. She is Chair of the supervisory board of Vallourec S.A., a leader in the seamless steel pipe markets, and a Non-Executive Director at pharmaceutical company GlaxoSmithKline plc. She serves as Chair of the Rosalind Franklin Institute and Vice Chair of the Saïd Business School (part of Oxford University). She was appointed Commander of the British Empire in the 2016 New Year Honours for her services to the economy and sustainability. Current notable commitments: GlaxoSmithKline plc (Non-Executive Director), Vallourec S.A. (Chair of the supervisory board).

Sherry Coutu, CBE

Sherry has an extensive experience in the technology industry. She is the Charmain of Funders4Schools and founder of the Scaleup Institute. Previously, she was CEO of Interactive Investor International plc, served on the board of Bloomberg New Energy Finance and the London Stock Exchange plc. In education, she was SID and Remuneration Committee Chair of RM plc, on the board of Cambridge University, Cambridge Assessment and Cambridge University Press, and Chesterton Community College. Sherry has started and or invested in over 60 technology businesses and served on the boards of Zoopla plc, Raspberry Pi, NESTA, and the Advisory boards of the National Gallery, Royal Society and LinkedIn. She was appointed Commander of the British Empire in the 2013 New Year Honours for services to her entrepreneurship.

Josh Lewis

Appointed on March 1, 2011. Member of the nomination & governance and remuneration committees.

Josh's experience spans finance, education and the development of digital enterprises. He is founder of Salmon River Capital LLC, a New York-based private equity/venture capital firm focused on technology-enabled businesses in education, financial services and other sectors, through which he has taken on the role of Non-Executive Director of several enterprises. Over a 25-year career in active, principal investing, he has been involved in a broad range of successful companies, including several pioneering enterprises in the education sector. In addition, he has long been active in the non-profit education sector. Current notable commitments: Salmon River Capital LLC (Founder & Managing Principal).

Graeme Pitkethly

Appointed on May 1, 2019. Member of the audit and reputation & responsibility committees.

Graeme joined Unilever in 2002 and, prior to being appointed CFO and Board member, was responsible for Unilever's UK and Ireland business. Previously, he had held a number of senior financial and commercial roles within Unilever and spent the earlier part of his career in senior corporate finance roles in the telecommunications industry. Graeme served as Vice President of Financial Planning and Vice President of Corporate Development at FLAG Telecom and started his career at PricewaterhouseCoopers. Graeme is a Vice Chair of the Task Force on Climate Related Financial Disclosures and is a Chartered Accountant. Current notable commitments: Unilever plc and Unilever NV (Chief Financial Officer).

Linda Lorimer

Appointed July 1, 2013. Chair of the reputation & responsibility committee and member of the audit committee.

Linda has spent almost 40 years serving higher education. She retired from Yale in 2016 after 34 years at the university where she served in an array of senior positions including Vice President for Global & Strategic Initiatives. She oversaw the development of Yale's burgeoning online education division and the expansion of Yale's international programs and centers. During her tenure, she was responsible for many administrative services, ranging from Yale's public communications and alumni relations to sustainability, human resources and the university press. She also served on the boards of several public companies, including as Presiding Director of the McGraw-Hill companies. Linda is a member of the board of Yale New Haven Hospital, where she chairs the nominating and governance committee and is a trustee of Hollins University. She also remains on several consequential advisory committees at Yale University.

Michael Lynton

Appointed on February 1, 2018. Member of the audit and reputation & responsibility committees.

Michael served as CEO of Sony Entertainment from 2012 until 2017, overseeing Sony's global entertainment businesses. He was also Chairman and CEO of Sony Pictures Entertainment from 2004. Prior to that, he held senior roles within Time Warner and AOL, and earlier served as Chairman and CEO of Penguin Group where he extended the Penguin brand to music and the internet. Michael is Chairman of Snap, Inc., Schrödinger LLC and Warner Music, and currently serves on the boards of IEX and Ares Management Corporation LLC. Current notable commitments: Ares Management Corporation LLC (Non-Executive Director), Snap, Inc (Chairman).

Tim Score

Appointed January 1, 2015. Chair of the audit committee and member of the nomination & governance and remuneration committees.

Tim has extensive experience of the technology sector in both developed and emerging markets, having served as Chief Financial Officer of ARM Holdings plc, the world's leading semiconductor IP company, for 13 years. He is an experienced non-executive director and serves as Chairman of The British Land Company plc, a role to which he was appointed in July 2019, a non-executive director of HM Treasury, and a Trustee of the National Theatre. He served on the board of National Express Group plc from 2005 to 2014, including time as interim Chairman and six years as the Senior Independent Director. Earlier in his career Tim held senior finance roles with Rebus Group, William Baird, LucasVarity plc and BTR plc. Current notable commitments: The British Land Company plc (Chairman).

Lincoln Wallen

Appointed January 1, 2016. Member of the audit and reputation & responsibility committees.

Lincoln has extensive experience in the technology and media industries, and is currently CTO of Improbable, a technology start-up supplying next-generation cloud hosting and networking services to the video game industry. Lincoln was CEO of DWA Nova, a software-as-a-service company spun out of DreamWorks Animation Studios in Los Angeles, a position he held until 2017. He worked at DreamWorks Animation for nine years in a variety of leadership roles including Chief Technology Officer and Head of Animation Technology. He was formerly CTO at Electronic Arts Mobile, leading their entry into the mobile gaming business internationally. Lincoln is a Non-Executive Director of the Smith Institute for Industrial Mathematics and Systems Engineering. His early career involved 20 years of professional IT and mathematics research, including as a reader in Computer Science at Oxford. Current notable commitments: Improbable (Chief Technology Officer).

Coram Williams

Appointed August 1, 2015.

Coram joined Pearson in 2003 and has held a number of senior positions including Finance and Operations Director for Pearson's English language teaching business in Europe, Middle East & Africa, Interim President of Pearson Education Italia and Head of Financial Planning and Analysis for Pearson. In 2008, Coram became CFO of The Penguin Group and was latterly appointed CFO of Penguin Random House in 2013, where he oversaw the integration of the two businesses. Coram trained at Arthur Andersen, and subsequently worked in both the auditing and consulting practices of the firm. He is a Non-Executive Director and Chairman of the audit committee for the Guardian Media Group. Coram will be stepping down from the Board and his role as Chief Financial Officer at the Annual General Meeting on 24 April 2020.

Sally Johnson Chief Financial Officer-elect

To be appointed 24 April 2020

Sally joined Pearson in 2000 and has held various finance and operations roles across The Penguin Group, the education business and at a corporate level. She brings to the Board extensive commercial and strategic finance experience as well as transformation, treasury, tax, risk management, business and financial operations, investor relations and M&A expertise. She has held various senior level roles across the business, most recently as Deputy CFO of Pearson. Sally is a member of the Institute of Chartered Accountants in England and Wales and trained at PricewaterhouseCoopers. She was also a Trustee for the Pearson Pension Plan from 2012 to 2018.

The following table sets forth information concerning the executive committee, as at February 29, 2020.

<u>Name</u>	<u>Position</u>
Tim Bozik	President, Global Product & North America Courseware
Rod Bristow	President, UK & Global Online Learning
Jonathan Chocqueel-Mangan	Chief Strategy Officer
Gio Giovannelli	President, Growth & Core Markets
Albert Hitchcock	Chief Technology & Operations Officer
Deirdre Latour	Chief Corporate Affairs Officer
Bjarne Tellmann	General Counsel & Chief Legal Officer
Anna Vikström Persson	Chief Human Resources Officer
Bob Whelan	President, Assessment

Tim Bozik

Tim Bozik is President, Global Product and North America Courseware. He has extensive experience in product development and higher education. Tim joined Pearson in 1983 as a sales representative and has since held leadership roles in product and general management, including President of US Higher Education.

Rod Bristow

Rod Bristow is President, UK & Global Online Learning. Rod is a Trustee for the Education and Employers Taskforce, a Fellow of the Royal Society of Arts, and Governor for Harlow College and the BMAT multi academy trust.

Jonathan Chocqueel-Mangan

Jonathan Chocqueel-Mangan is Chief Strategy Officer. He was formerly Chief Strategy and Transformation Officer at Kantar Consumer Insights. Jonathan has professional qualifications in Consulting and Coaching for Change from the Saïd Business School and a Doctor of Business Administration in Organizational Behavior from the University of Surrey.

Gio Giovannelli

Gio Giovannelli is President, Growth & Core Markets. He was previously CEO of Grupo Multi, which was acquired by Pearson in 2013. He has also held three other CEO positions in Brazil, across different sectors. Gio is a former board member of Natura and of CVC Viagens, both listed on the Sao Paulo Stock Exchange.

Albert Hitchcock

Albert Hitchcock is Chief Technology & Operations Officer, a position he has held since March 2014. He leads digital product development, enterprise technology and operations encompassing supply chain, procurement, customer service and real estate. Previously, Albert was Group CIO at Vodafone and prior to this was Global CIO at Nortel.

Deirdre Latour

Deirdre Latour is Chief Corporate Affairs Officer, a position she has held since January 2019. She brings over 20 years of experience in corporate communications and issues management. Previously, Deirdre was the chief communications officer for GE and worked for the global public relations firm Edelman.

Bjarne Tellmann

Bjarne Tellmann is General Counsel & Chief Legal Officer. He previously worked across Europe, Asia and the United States in various capacities with The Coca-Cola Company, most recently as Associate General Counsel. He has also held legal positions at Kimberly-Clark and the law firms of Sullivan & Cromwell LLP and White & Case LLP.

Anna Vikström Persson

Anna Vikström Persson is Chief Human Resources Officer, a position she has held since February 2018. She has over 20 years of international HR experience. Previously, Anna served as EVP & Head of Group Human Resources for Sandvik, and similarly for SSAB. She was also VP, HR & Organization for Ericsson.

Bob Whelan

Bob Whelan is President, Assessment. He has significant expertise in assessment and has driven Pearson's growth as a global leader in computer-based assessments since 2000. Bob leads Pearson's combined assessment businesses including US Student Assessment, Clinical Assessment, as well as Pearson VUE.

Compensation of senior management

It is the role of the remuneration committee (the committee) to approve the remuneration and benefits packages of the executive directors and other members of the Pearson Executive.

The principal duties of the committee are to:

- Determine and regularly review the remuneration policies for the Executive Directors, the presidents and other members of Pearson's Executive management (who report directly to the Chief Executive). These policies include base salary, annual and long-term incentives, pension arrangements, any other benefits and termination of employment. When setting remuneration policy, the Committee also takes into account remuneration practices and related policies for the wider workforce.
- Ensure the company maintains an appropriate level of engagement with its shareholders and shareholder representative bodies in relation to the remuneration policy and its implementation.
- Regularly review the implementation and operation of the remuneration policy and approve the individual remuneration and benefits packages of Executive management.
- Approve the design of, and determine targets for, any performance-related pay plans operated by the Group for Pearson Executive management and approve the total payments to be made under such plans.
- Advise and decide on general and specific remuneration arrangements in connection with the termination of employment of Executive management.
- Delegated responsibility for determining the remuneration and benefits package of the Chair of the Board.
- Appoint and set the terms of engagement for any remuneration consultants who advise the Committee and monitor the cost of such advice.
- Appoint and set the terms of engagement for any remuneration review updates from management on talent, retention and gender pay gap.

Remuneration policy

The 2020 directors' remuneration policy (2020 policy) described below will be put to shareholders for binding vote at the Annual General Meeting to be held on 24 April 2020. Subject to shareholder approval, the effective date of this policy will be 24 April 2020. However, it is proposed, subject to approval at the AGM, that changes to executive director incentives be made effective from the start of the 2020 performance periods. The intention of the committee is that the policy will remain in place for three years from the date of its approval.

The committee's starting point continues to be that total remuneration should reward both short and long-term results, delivering competitive rewards for target performance, but outstanding rewards for exceptional performance.

Total remuneration is made up of fixed and performance-linked elements, with each element supporting different objectives. Base salary helps to recruit, reward and retain people and reflects competitive market level, role, skills, experience and individual contribution. Allowances and benefits help to recruit and retain people and

reflect the local competitive market. Retirement benefits help to recruit and retain people and recognize their long-term commitment to the company. Annual incentives motivate the achievement of annual strategic goals and personal objectives, provide focus on key financial metrics and reward individual contribution to the success of the company. Long-term incentives help to recruit, reward and retain people, drive long-term earnings, share price growth and value creation, align interests of executives and shareholders, encourage long-term shareholding and commitment to the company and link management's long-term reward and wealth to corporate performance in a flexible way.

For Executive Director benchmarking purposes, the committee reviews remuneration by reference to different comparator groups including survey data from companies of similar size and scope, excluding financial services companies.

Consistent with its policy, the committee places considerable emphasis on the performance-linked elements i.e. annual and long-term incentives. The committee will continue to review the mix of fixed and performance-linked remuneration on an annual basis, consistent with its overall philosophy.

Base salary

Base salaries are set to provide the appropriate rate of remuneration for the job, taking into account relevant recruitment markets, business sectors and geographic regions.

Base salaries are normally reviewed annually taking into account: general economic and market conditions; the level of increases made across the company as a whole; particular circumstances such as changes in role, responsibilities or organization; the remuneration and level of increases for executives in similar positions in comparable companies in both the UK, US and internationally; and individual performance.

While there is no maximum salary level or maximum increase that may be offered, salary increases will normally be in line with typical increases awarded to other employees in the Group.

However, increases may be above this level in certain circumstances such as:

- Where a new Executive Director has been appointed to the Board at a lower than typical market salary to allow for growth in the role then larger increases may be awarded to move salary positioning closer to typical market level as the Executive Director gains experience.
- Where an Executive Director has been promoted or has had a change in responsibilities.
- Where there has been a significant change in market practice or where there has been a significant change in the size and/or scope of the business.

Allowances and benefits

Allowances and benefits comprise cash allowances and non-cash benefits and which may include:

- travel-related benefits (such as company car, car allowance and private use of a driver);
- health-related benefits (such as healthcare, health assessment and gym subsidy);
- and risk benefits (such as additional life cover and long-term disability insurance that are not covered by the company's retirement plans).

Executive directors are also eligible to participate in savings-related share acquisition programs, which are not subject to any performance conditions, on the same terms and to the same value as other employees.

Where an Executive Director is required to relocate to perform their role, appropriate one-off or on-going expatriate/relocation benefits may be provided (e.g. housing, schooling etc.)

The Committee may introduce other benefits it is considered appropriate to do so, taking into account the individual circumstances, the country of residence of a Director, the benefits available to all employees and the wider external market.

The cost of the provision of allowances and benefits varies from year to year depending on the cost to Pearson and there is no prescribed maximum limit. However, the Committee monitors annually the overall cost of the benefits provided, to ensure that it remains appropriate.

Retirement benefits

Employees in the UK are eligible to join the Money Purchase 2003 section of the Pearson Group Pension Plan. Executive directors are eligible to join this plan or receive a cash allowance of equivalent value.

If any executive director is from, or works, outside the UK, the committee retains a discretion to put in place retirement benefit arrangements for that director in line with local market practice including defined benefit pension arrangements operated by Pearson locally. The maximum value of such arrangement will reflect local market practice at the relevant time.

The committee will also honor all pre-existing retirement benefit obligations, commitments or other entitlements that were entered into by a member of the Pearson Group before that person became a director, such as participation in the Final Pay section of the Pearson Group Pension Plan which is now closed to new members.

New appointments: New appointments to the board are eligible to receive pension contributions of up to 16% of pensionable salary or a cash allowance of up to 16% of salary in line with the maximum company contribution as a percentage salary that UK employees who are over 45 are eligible to receive.

UK executive directors who are, or become, affected by the lifetime allowance may be provided with appropriate benefits, as an alternative to further accrual of pension benefits such as a cash supplement.

The pension entitlements of each director are as follows:

John Fallon

John Fallon is a member of the Final Pay section of the Pearson Group Pension Plan. His pension accrual rate is 1/30th of pensionable salary per annum, restricted to the plan earnings cap. Until April 2006, the company also contributed to a Funded Unapproved Retirement Benefits Scheme (FURBS) on his behalf. Since April 2006, he has received a taxable and non-pensionable cash supplement in replacement of the FURBS of 26% of salary.

John attained the maximum service accrual under the Final Pay section of his pension benefit when he reached 20 years' service in October 2017. Since this time, John receives the pension supplement of 26% of salary only. The Committee reviewed the approach to the Chief Executive's pension in light of shareholder views and best practice, and agreed with John Fallon that his pension allowance would be reduced on a phased basis over the next three years to bring it into line with the UK workforce at 16% of salary. Notwithstanding his planned retirement, John Fallon's cash pension allowance has been reduced by 3 percentage points to 23% of salary as the first step on his planned phased reduction.

Coram Williams

Coram Williams is a member of the Final Pay section of the Pearson Group Pension Plan with continuous service with a service gap. His pension accrual rate is 1/60th of pensionable salary per annum, restricted to the plan earnings cap.

Sally Johnson

Sally Johnson is a member of the Final Pay section of the Pearson Group Pension Plan with continuous service. Her pension accrual rate is 1/60th of pensionable salary per annum, restricted to the plan earnings cap.

Annual incentives

Measures and performance targets are set by the committee at the start of the year with payment made after year end following the committee's assessment of performance relative to targets.

Annual incentive plans are discretionary. The committee reserves the right to adjust payments up or down if it believes that the outcome does not reflect underlying financial or non-financial performance or if such other exceptional factors warrant doing so.

The committee may apply malus and / or clawback for a period of five years in circumstances, such as financial misstatement, individual misconduct or reputational damage to the company.

Annual incentives will not exceed 200% of base salary.

For the Chief Executive, the individual maximum incentive opportunity is 180% of base salary and 170% for the CFO (which are the same opportunities as applied under the previous policy).

There is normally no pay-out for performance at threshold. 50% of the maximum is payable for on-target levels of performance. This represents a reduction in the Chief Executive's target opportunity, from 100% of salary to 90% of salary.

The committee has the discretion to select the performance measures and relative weightings from year to year to ensure continuing alignment with strategy and to ensure targets are sufficiently stretching. The committee sets performance targets for each measure annually.

Annual incentives will normally be based on financial and strategic performance targets. Financial metrics will normally account for at least 75% of the total annual opportunity with the remaining portion normally being based on strategic and / or performance against personal objectives.

The plan is designed to incentivize and reward underlying performance. Actual results may be adjusted to remove the effect of foreign exchange and portfolio changes (acquisitions and disposals) and other relevant factors that the committee considers do not reflect the underlying performance of the business in the performance year.

The funding of annual incentives will normally be related to the performance against financial and strategic imperatives performance targets. For the 2020 financial year the annual bonus will be based 30% on operating profit, 30% on sale performance, 20% on operating cash flow and 20% on strategic measures. Each performance measure will operate independently. There will be no changes to the maximum annual incentive opportunities for 2019.

Strategic measures will be measured, using third party data or externally audited internal data (where third-party data is not available or applicable). Performance metrics linked to strategic objectives can be selected annually to support the Group's strategy.

A pay-out will only be made if a minimum level of performance has been achieved under the financial metrics, as determined by the committee each year.

Details of performance measures, weightings and targets will be disclosed in the annual remuneration report for the relevant financial year if and to the extent that the committee deems them to be no longer commercially sensitive.

The performance period is one year.

Long-term incentives

Awards of shares are made on an annual basis, which vest on a sliding scale based on performance against stretching corporate performance targets measured at the end of the three-year performance period.

Awards are normally subject to a post vesting holding period for two years following the end of the performance period. For awards granted prior to 2020 the holding period applied will be in-line with the approach set out in the Directors' Remuneration Policy in place at the time of award.

Participants may receive additional shares representing the gross value of dividends that would have been paid on shares that vest during the performance period.

The committee reserves the right to adjust pay-outs up or down before they are released if it believes that the vesting outcome does not reflect underlying financial or non-financial performance or if such other exceptional factors warrant doing so. In making such adjustments, the committee is guided by the principle of aligning shareholder and management interests.

The committee may apply malus and / or clawback for a period of five years in circumstances, such as financial misstatement, individual misconduct or reputational damage to the company.

The maximum award is 350% of base salary in respect of a financial year.

Coram Williams and John Fallon will not be eligible for an LTIP award in 2020. The LTIP award level for the incoming CFO is 245% of base salary (which is the same award opportunity as for Coram Williams in 2017, 2018 and 2019), reflecting the discounts to LTIP awards in light of share price performance.

The committee believe that a further reduction in the incoming CFO's award level is not appropriate, beyond the discount already applied. This discount was set at a time when the share price was comparable to the current share price and the Committee considered that alignment between management and shareholders would be better supported by maintaining her level of grant at 245% of salary in 2020.

The committee will determine the performance measures, weightings and targets governing an award of shares prior to grant to ensure continuing alignment with strategy and to ensure that targets are sufficiently stretching.

The committee establishes a threshold below which no pay-out is achieved and a maximum at or above which the award pays out in full. The proportion of the award that vests at threshold may be up to 25%.

Awards will normally be subject to the achievement of targets for earnings per share, return on invested capital and relative total shareholder return (weighted equally). The committee may determine that different measures or weightings may apply for future awards, however, the committee would intend to consult with shareholders in advance if a different performance measure was to be used or if there was to be a significant change in the weighting of measures.

The 2020 LTIP award which will vest on 1 May 2023 will be subject to the following performance conditions:

- 1/3 of the award will be based on Pearson's earnings per share (EPS) in 2022;

- 1/3 of the award will be based on Pearson’s net return on invested capital (Net ROIC) in 2022; and
- 1/3 of the award will be based on Pearson’s total shareholder return (TSR) performance relative to the constituents of the FTSE 100 index over the three-year period 1 January 2020 to 31 December 2022

Details of the performance targets for each of the performance conditions are set out in the table below:

EPS (1/3)		Net ROIC (1/3)		Relative TSR (1/3)	
Vesting schedule (% max)	Adjusted EPS for FY22	Vesting schedule (% max)	Adjusted net ROIC for FY22	Vesting schedule (% max)	Ranked position vs FTSE 100
15%	45.5p	15%	5.2%	25%	Median
65%	52.5p	65%	6.2%	—	—
100%	60p	100%	7.5%	100%	Upper quartile

Note: straight line vesting between points shown, with no vesting for performance below threshold

Shareholding policy

Executive Directors are expected to build up a shareholding in the company.

Executive Directors are expected to reach the guideline within five years from the date of appointment

Post-employment shareholding: Executive Directors are expected to retain their shareholding guideline (or actual holding if lower) for two years following down as an Executive Director. This provision does not apply to any shares purchased by the executive director.

The target holding is 300% of salary for the Chief Executive and 200% of salary for other Executive Directors

Service agreements

In accordance with long established policy, all executive directors have service agreements under which, other than by termination in accordance with the terms of these agreements, employment continues indefinitely.

There are no special provisions for notice or non-share-based compensation in the event of a change of control of Pearson.

It is the company’s policy that the company may terminate the chairman’s and executive directors’ service agreements by giving no more than 12 months’ notice.

Payment in lieu of notice

As an alternative, for executive directors the company may at its discretion pay in lieu of that notice. Payment in lieu of notice may be made in equal monthly instalments from the date of termination to the end of any unexpired notice period. Payment in lieu of notice in instalments may also be subject to mitigation and reduced taking into account earnings from alternative employment.

For executive directors, payment in lieu of notice comprises 100% of the annual salary at the date of termination and the annual cost to the company of providing pension and all other benefits. For the chairman, payment in lieu of notice comprises 100% of the annual fees at the date of termination.

The company may, depending on the circumstances of the termination, determine that it will not pay the director in lieu of notice and may instead terminate a director's contract in breach and make a damages payment, taking into account as appropriate the director's ability to mitigate his or her loss.

The company may also pay an amount considered to be reasonable by the remuneration committee in respect of fees for legal and tax advice and outplacement support for the departing director. The Committee reserves the right to make any other payments in connection with a director's cessation of office or employment where the payments are made in good faith, in discharge of an existing legal obligation (or by way of damages for breach of such an obligation) or by way of settlement of any claim arising in connection with the cessation of a director's office or employment.

Share awards

On cessation of employment, unless otherwise provided for under the rules of Pearson's discretionary share plans, executive directors' entitlements to any unvested awards lapse automatically. In the case of injury, disability, ill-health or redundancy (as determined by the committee), where a participant's employing company ceases to be part of Pearson, or any other reason if the committee so decides in its absolute discretion:

- Awards that are subject to performance conditions will stay in force as if the participant had not ceased employment and shall vest on the original vesting date / be released in line with normal time horizons.
- Awards that are not subject to a performance condition will be released as soon as practicable following cessation of employment.
- The number of shares that are released shall be pro-rated for the period of the participant's service in the restricted period (although the committee may in its absolute discretion waive or vary the pro-rating).

In determining whether and how to exercise its discretion under Pearson's discretionary share plans, the committee will have regard to all relevant circumstances distinguishing between different types of leaver, the circumstances at the time the award was originally made, the director's performance and the circumstances in which the director left employment.

The rules of Pearson's discretionary share plans also make provision for the treatment of awards in respect of corporate activity, including a change of control of Pearson. The committee would act in accordance with the terms of the awards in these circumstances, which includes terms as to the assessment of performance conditions and time apportionment.

Annual bonus

On cessation of employment, executive directors, having been notified of participation in an annual incentive plan for the relevant financial year, may, at the committee's discretion, retain entitlement to a pro rata annual incentive for their period of service in the financial year prior to their leaving date. Such pay-out will normally be calculated in good faith on the same terms and paid at the same time as for continuing executive directors.

Other elements of remuneration

Eligibility for allowances and benefits including retirement benefits normally ceases on retirement or on the termination of employment for any other reason.

Executive directors' non-executive directorships

The Group's policy is that executive directors may, by agreement with the board, serve as non-executives of other companies and retain any fees payable for their services.

Coram Williams is engaged as a non-executive director and chair of the audit committee of Guardian Media Group plc. He received fees of £39,000 during 2019. In accordance with the Group's policy, Coram is permitted to retain these fees.

Chair's and non-executive directors' remuneration

The chair is paid a single fee for all of his responsibilities.

The chair's fee is set at a level that is competitive with those of chairmen in similar positions in comparable companies.

The non-executive directors are paid a basic fee. The chair and members of the main board committees and the senior independent director are paid an additional fee to reflect their extra responsibilities. Fees for non-executive directors are determined by the full board having regard to market practice.

Additional fees or other payments may be paid to reflect additional responsibilities, roles or contribution, as appropriate.

The chair and non-executive directors are not entitled to any annual or long-term incentive, retirement or other employee benefits. Selected benefits may be introduced, if considered appropriate.

The company reimburses the chair's and non-executive directors' travel and other business expenses and any tax incurred thereon, if applicable.

Normally a minimum of 25% of the non-executive directors' basic fee is paid in Pearson shares that the non-executive directors have committed to retain for the period of their directorships. Shares are normally acquired quarterly at the prevailing market price with the individual's after-tax fee payments.

Fee levels are reviewed on a periodic basis.

The total fees payable to the non-executive directors (excluding the chair) are subject to the limit set out in the Articles of Association of the company (currently £750,000) and as increased by ordinary resolution from time to time.

	With effect from April 24, 2020
Non-executive director	£70,000
Chairmanship of audit committee	£27,500
Chairmanship of remuneration committee	£22,000
Chairmanship of nomination and governance committee	£15,000
Chairmanship of reputation and responsibility committee	£15,000
Membership of audit committee	£15,000
Membership of remuneration committee	£10,000
Membership of nomination and governance committee	£ 8,000
Membership of reputation and responsibility committee	£ 8,000
Senior independent director	£22,000

Notes:

- (1) The fee paid to the chair remains unchanged at £500,000.
- (2) A minimum of 25% of the basic fee is paid in Pearson shares that the chairman and non-executive directors have committed to retain for the period of their directorships.
- (3) Non-executive directors serve Pearson under letters of appointment and do not have service contracts. There is no entitlement to compensation on the termination of their directorships.

Remuneration of senior management

The remuneration received by the chair and executive directors in respect of the financial year ending December 31, 2019 was as follows:

	Base Salary/ Fees	Allowances & Benefits(1)	Annual Incentives	Long-term Incentives	Retirement Benefits	Total
	£000	£000	£000	£000	£000	£000
Chair						
Sidney Taurel	500	8				508
Non-executive directors						
Elizabeth Corley	115	—				115
Sherry Coutu	56	—				—
Vivienne Cox	128	1				129
Josh Lewis	88	2				90
Linda Lorimer	98	4				102
Michael Lynton	91	—				—
Graeme Pitkethly	57	—				—
Tim Score	116	1				117
Lincoln Wallen	91	4				95
Executive directors						
John Fallon	813	30	—	803	211	1,857
Coram Williams	537	8	—	—	62	607
Senior management as a group	<u>2,690</u>	<u>58</u>	<u>—</u>	<u>803</u>	<u>273</u>	<u>3,621</u>

Notes:

- (1) Benefits include company car, car allowance, private use of a driver, healthcare, additional life cover, long-term disability insurance and subsistence expenses.

Share options for senior management

There are no share options outstanding for senior management.

Share ownership of senior management

The table below shows the number of ordinary shares and conditional shares held by directors and their connected persons as at December 31, 2019. Additional information with respect to share options held by, and bonus awards for, these persons is set out above in “Remuneration of Senior Management” and “Share Options of Senior Management”. The total number of ordinary shares held by senior management as of December 31, 2019 was 670,338.

<u>As at 31 December 2019</u>	<u>Ordinary Shares(1)</u>	<u>Conditional Shares</u>
Sidney Taurel	103,224	—
John Fallon	397,313	923,215
Coram Williams	56,108	542,310
Elizabeth Corley	22,028	—
Sherry Coutu	3,175	—
Vivienne Cox	7,430	—
Josh Lewis	14,200	—
Linda Lorimer	11,040	—
Michael Lynton	8,535	—
Graeme Pitkethly	785	—
Tim Score	37,893	—
Lincoln Wallen	8,607	—

Notes

- (1) Ordinary shares include both ordinary shares listed on the London Stock Exchange and American Depositary Receipts (ADRs) listed on the New York Stock Exchange. The figures include both shares and ADRs acquired by individuals under the long-term incentive plan and any legacy share plans they might have participated in.
- (2) Conditional shares means unvested shares which remain subject to performance conditions and/or continuing employment for a pre-defined period.
- (2) The register of directors’ interests (which is open to inspection during normal office hours) contains full details of directors’ shareholdings and options to subscribe for shares. The market price on December 31, 2019 was 637.0p per share and the range during the year was 615.0p to 1027.5p.
- (3) Ordinary shares do not include any shares vested but held pending release under a restricted share plan.

The total remuneration of the executive committee is set out in the table below:

<u>All figures in £ millions</u>	<u>2019</u>
Short-term employee benefits	5
Retirement benefits	1
Share-based payment costs	4
Total	10

Employee share ownership plans

In 1998, the Group introduced a worldwide save for shares plan. Under this plan, employees around the world have the option to save a portion of their monthly salary over periods of three or five years. At the end of this period, the employee has the option to purchase ordinary shares with the accumulated funds at a purchase price equal to 80% of the market price prevailing at the commencement of the employee’s participation in the plan. In 2020, the three-year plan will be in operation only, and the five year plan will be discontinued.

In 2014, shareholders approved the renewal and extension of the life of the UK plan by a further ten years, until 2024 and the renewal of the directors’ authority to continue to operate equivalent arrangements for non-UK employees. As part of this renewal, the savings limit for the UK HMRC-approved part of the plan (which forms the basis of the plan in the rest of the world outside the US) was increased from £250 to £500 per month.

In the United States, this plan operates as a stock purchase plan under Section 423 of the US Internal Revenue Code of 1986. This plan was introduced in 2000 following Pearson's listing on the New York Stock Exchange. Under it, participants save a portion of their monthly salary over six month periods, at the end of which they have the option to purchase ADRs with their accumulated funds at a purchase price equal to 85% of the lower of the market price prevailing at the beginning or end of the period. The maximum employee contribution under the plan is \$1,000 per month.

Board practices

As at February 29, 2020, the Group's board comprises the chair, two executive directors and nine non-executive directors. The articles of association provide that at every annual general meeting, one-third of the board of directors, or the number nearest to one-third, shall retire from office. The directors to retire each year are the directors who have been longest in office since their last election or appointment. A retiring director is eligible for re-election. If at any annual general meeting, the place of a retiring director is not filled, the retiring director, if willing, is deemed to have been re-elected, unless at or prior to such meeting it is expressly resolved not to fill the vacated office, or unless a resolution for the re-election of that director has been put to the meeting and lost. The articles of association also provide that every director be subject to re-appointment by shareholders at the next annual general meeting following their appointment.

However in accordance with the UK Corporate Governance Code, the board has resolved that all directors should offer themselves for re-election on an annual basis at the company's annual general meeting. Accordingly, all of the directors, other than Coram Williams and Josh Lewis who are standing down at the conclusion of the meeting, will offer themselves for re-election at the forthcoming annual general meeting on April 24, 2020.

Pearson is listed on the New York Stock Exchange ("NYSE"). As a listed non-US issuer, the Group is required to comply with some of the NYSE's corporate governance rules, and otherwise must disclose on its website any significant ways in which its corporate governance practices differ from those followed by US companies under the NYSE listing standards. At this time, the Group believes that it is in compliance in all material respects with all the NYSE rules except that the Remuneration Committee and the Nomination & Governance Committee are not composed entirely of independent directors as the Chair, who is not considered independent under NYSE rules, is a member of each committee in addition to independent directors.

The board of directors has established the following formal committees, all of which report to the board. Each committee has its own written terms of reference setting out its authority and duties. These can be found on the Group's website (<https://www.pearson.com/investors/governance.html>).

Audit committee

This committee appraises the Group's financial management and reporting and assesses the integrity of its accounting procedures and financial control. Tim Score chairs this committee and its other members are Elizabeth Corley, Vivienne Cox, Linda Lorimer, Michael Lynton, Graeme Pitkethly and Lincoln Wallen. Tim Score is also the designated audit committee financial expert within the meaning of the applicable rules and regulations of the US Securities and Exchange Commission. Each member is "financially literate" for the purposes of the NYSE listing standards. The Group's internal and external auditors have direct access to the committee to raise any matter of concern and to report the results of work directed by the committee.

Remuneration committee

This committee meets regularly to determine the remuneration and benefits of the executive directors and oversees remuneration arrangements for the Pearson Executive. The committee also recommends the chair's remuneration to the board of directors for its decision. Elizabeth Corley chairs this committee and its other members are Sherry Coutu, Josh Lewis, Tim Score and Sidney Taurel.

Nomination & governance committee

This committee reviews corporate governance matters including UK Corporate Governance Code compliance and board evaluation, considers the appointment of new directors, board experience and diversity, and reviews board induction and succession plans. The committee is chaired by Vivienne Cox and its other members are Elizabeth Corley, Sherry Coutu, Josh Lewis, Tim Score and Sidney Taurel.

Reputation & responsibility committee

This committee considers the Group's impact on society and the communities in which the Group operates, including to ensure strategies are in place to manage and improve the Group's reputation. Linda Lorimer chairs this committee and its other members are Vivienne Cox, Michael Lynton, Graeme Pitkethly and Lincoln Wallen.

Employees

The average number of persons employed by the Group in continuing operations during each of the three fiscal years ended 2019 were as follows:

- 22,734 in fiscal 2019, and
- 24,322 in fiscal 2018, and
- 30,339 in fiscal 2017.

Through its subsidiaries, the Group has entered into collective bargaining agreements with employees in various locations. The Group's management has no reason to believe that it would not be able to renegotiate any such agreements on satisfactory terms. The Group encourages employees to contribute actively to the business in the context of their particular job roles and believes that the relations with its employees are generally good.

The table set forth below shows for 2019, 2018 and 2017 the average number of persons employed in each of the Group's segments.

<u>Average number employed</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
North America	13,564	14,113	16,295
Core	4,951	5,192	5,291
Growth	3,693	4,521	8,268
Other	526	496	485
Continuing operations	<u>22,734</u>	<u>24,322</u>	<u>30,339</u>

The average number employed in discontinued operations was nil in 2019, nil in 2018, and nil in 2017.

ITEM 7. MAJOR SHAREHOLDERS AND RELATED PARTY TRANSACTIONS

As at February 29, 2020, the company had been notified under the Financial Conduct Authority's Disclosure and Transparency Rules of the following significant voting rights in its shares:

<u>Name of Shareholder</u>	<u>Number of ordinary shares held</u>	<u>% of outstanding ordinary shares represented by number of shares held*</u>
Schroders plc	101,370,711	13.00
Silchester International Investors LLP	85,106,480	11.00
Lindsell Train Limited	78,465,444	10.04
Blackrock, Inc	50,946,154	6.51
Ameriprise Financial Inc and its group	41,236,375	5.02
Libyan Investment Authority**	24,431,000	3.01

* % of Issued share capital on date notified

** Based on notification to the company dated 7 June 2010. We have been notified of no change to this holding since that date. Assets belonging to, or owned, held or controlled since 16 September 2011 by the Libyan Investment Authority and located outside Libya on that date, are frozen in accordance with Article 5(4) of Regulation 2016/44 of the Council of the European Union.

On February 29, 2020, 2,682 record holders with registered addresses in the United States held 21,118,921 ADRs, which represented 2.7% of the Group's outstanding ordinary shares. Some of these ADRs are held by nominees and so these numbers may not accurately represent the number of shares beneficially owned in the United States.

Loans and equity advanced to joint ventures and associates during the year and as at December 31, 2019 are shown in note 12 in "Item 18. Financial Statements." Dividends receivable from joint ventures and associates are set out in note 12 in "Item 18. Financial Statements". There were no other related party transactions in 2019.

ITEM 8. FINANCIAL INFORMATION

The financial statements filed as part of this Annual Report are included on pages F-1 through F-95 hereof.

Other than those events described in note 37 in "Item 18. Financial Statements" of this Form 20-F and seasonal fluctuations in borrowings, there has been no significant change to the Group's financial condition or results of operations since December 31, 2019. The Group's borrowings fluctuate by season due to the effect of the school year on the working capital requirements of the educational book business. Assuming no acquisitions or disposals, the maximum level of net debt normally occurs in the third quarter, and the minimum level of net debt normally occurs in December.

The Group's policy with respect to dividend distributions is described in response to "Item 3. Key Information" above.

See "Item 4. Information on the Company — Legal Proceedings" for information with respect to legal proceedings to which the Group may be subject from time to time.

ITEM 9. THE OFFER AND LISTING

The principal trading market for the Group's ordinary shares is the London Stock Exchange which trade under the symbol "PSO". Its ordinary shares also trade in the United States in the form of ADSs evidenced by ADRs under a sponsored ADR facility with The Bank of New York Mellon, as depository. The Group established this facility in March 1995 and most recently amended it in August 2014 in connection with its New York Stock Exchange listing. Each ADS represents one ordinary share.

The ADSs trade on the New York Stock Exchange under the symbol "PSO".

ITEM 10. ADDITIONAL INFORMATION

Articles of association

The Group summarizes below the material provisions of its articles of association, as amended, which have been filed as an exhibit to its annual report on Form 20-F for the year ended December 31, 2019. The summary below is qualified entirely by reference to the Articles of Association. The Group has multiple business objectives and purposes and is authorized to do such things as the board may consider fit to further its interests or incidental or conducive to the attainment of its objectives and purposes.

Directors' powers

The Group's business shall be managed by the board of directors and the board may exercise all such of its powers as are not required by law or by the Articles of Association or by any directions given by the Company by special resolution, to be exercised in a general meeting.

Interested directors

For the purposes of section 175 of the Companies Act 2006, the board may authorize any matter proposed to it which would, if not so authorized, involve a breach of duty by a Director under that section, including, without

limitation, any matter which relates to a situation in which a Director has, or can have, an interest which conflicts, or possibly may conflict, with the interests of the Company. Any such authorization will be effective only if:

- (a) any requirement as to quorum at the meeting at which the matter is considered is met without counting the Director in question or any other interested Director; and
- (b) the matter was agreed to without their voting or would have been agreed to if their votes had not been counted.

The board may (whether at the time of the giving of the authorization or subsequently) make any such authorization subject to any limits or conditions it expressly imposes but such authorization is otherwise given to the fullest extent permitted. The board may vary or terminate any such authorization at any time.

Provided that he has disclosed to the board the nature and extent of his interest (or else that the Director is not aware of the interest or not aware of the transaction or arrangement in question, or else that the interest cannot be reasonably regarded to give rise to a conflict of interest), a Director notwithstanding his office:

- (a) may be a party to, or otherwise interested in, any transaction or arrangement with the Company or in which the Company is otherwise (directly or indirectly) interested;
- (b) may act by himself or his firm in a professional capacity for the Company (otherwise than as auditor) and he or his firm shall be entitled to remuneration for professional services as if he were not a Director;
- (c) may be a director or other officer of, or employed by, or a party to a transaction or arrangement with, or otherwise interested in, any body corporate in which the Company is otherwise (directly or indirectly) interested.

A Director shall not, by reason of his office, be accountable to the Company for any remuneration or other benefit which he derives from any office or employment or from any transaction or arrangement or from any interest in any body corporate:

- (a) the acceptance, entry into or existence of which has been approved by the board (subject, in any such case, to any limits or conditions to which such approval was subject); or
- (b) which he is permitted to hold or enter into by virtue of paragraph (a), (b) or (c) above;

nor shall the receipt of any such remuneration or other benefit constitute a breach of his duty under section 176 of the Act.

A Director shall be under no duty to the Company with respect to any information which he obtains or has obtained otherwise than as a Director of the Company and in respect of which he owes a duty of confidentiality to another person. However, to the extent that his relationship with that other person gives rise to a conflict of interest or possible conflict of interest, the preceding sentence only applies if the existence of such relationship has been approved by the board. In such circumstances, the Director shall not be in breach of the general duties he owes to the Company by virtue of sections 171 to 177 of the Act because he fails:

- (a) to disclose any such information to the board or to any Director or other officer or employee of the Company; and/or
- (b) to use or apply any such information in performing his duties as a Director of the Company.

Where the existence of a Director's relationship with another person has been approved by the board and his relationship with that person gives rise to a conflict of interest or possible conflict of interest, the Director shall

not be in breach of the general duties he owes to the Company by virtue of sections 171 to 177 of the Act because he:

- (a) absents himself from meetings of the board at which any matter relating to the conflict of interest or possible conflict of interest will or may be discussed or from the discussion of any such matter at a meeting or otherwise; and/or
- (b) makes arrangements not to receive documents and information relating to any matter which gives rise to the conflict of interest or possible conflict of interest sent or supplied by the Company and/or for such documents and information to be received and read by a professional adviser, for so long as he reasonably believes such conflict of interest or possible conflict of interest subsists.

Except as stated below, a Director shall not vote in respect of any contract or arrangement or any other proposal whatsoever in which he has an interest which is, to his knowledge, a material interest, otherwise than by virtue of his interests in shares or debentures or other securities of or otherwise in or through the Company. A Director shall not be counted in the quorum at a meeting of the Board in relation to any resolution on which he is debarred from voting.

Notwithstanding the foregoing, a Director will be entitled to vote, and be counted in the quorum, on any resolution concerning any of the following matters:

- the giving of any guarantee, security or indemnity in respect of money lent or obligations incurred by him or by any other person at the request of or for the benefit of the Company or any of its subsidiaries;
- the giving of any guarantee, security or indemnity to a third party in respect of a debt or obligation of the Company or any of its subsidiaries for which he himself has assumed responsibility in whole or in part and whether alone or jointly with others under a guarantee or indemnity or by the giving of security;
- any proposal relating to the Company or any of its subsidiary undertakings where it is offering securities in which offer a Director is or may be entitled to participate as a holder of securities or in the underwriting or sub-underwriting of which a Director is to participate;
- any proposal relating to another company in which he and any persons connected with him do not to his knowledge hold an interest in shares (as that term is used in sections 820 to 825 of the Companies Act 2006) representing one per cent or more of either any class of the equity share capital, or the voting rights, in such company;
- any proposal relating to an arrangement for the benefit of the employees of the Company or any of its subsidiary undertakings which does not award him any privilege or benefit not generally awarded to the employees to whom such arrangement relates; and
- any proposal concerning insurance that the Company proposes to maintain or purchase for the benefit of directors or for the benefit of persons, including Directors.

Where proposals are under consideration concerning the appointment of two or more Directors to offices or employment with us or any company in which the Group is interested, these proposals may be divided and considered separately and each of these directors, if not prohibited from voting under the provisions of the eighth paragraph before this one, will be entitled to vote and be counted in the quorum with respect to each resolution except that concerning his or her own appointment.

Borrowing powers

The board of Directors may exercise all powers to borrow money and to mortgage or charge the Group's undertaking, property and uncalled capital and to issue debentures and other securities, whether outright or as collateral security for any of its or any third party's debts, liabilities or obligations. The board of directors must

restrict the borrowings in order to secure that the aggregate amount of undischarged monies borrowed by the Group (and any of its subsidiaries), but excluding any intra-group debts, shall not at any time (without the previous sanction of the Company in the form of an ordinary resolution) exceed a sum equal to twice the aggregate of the adjusted capital and reserves.

Other provisions relating to directors

Under the articles of association, directors are paid out of the Group's funds for their services as it may from time to time determine by ordinary resolution and, in the case of non-executive directors, up to an aggregate of £750,000 or such other amounts as resolved by the shareholders at a general meeting. Any Director who is not an Executive Director and who performs special services which in the opinion of the Board are outside the scope of the ordinary duties of a Director, may be paid such extra remuneration by way of additional fee, salary, commission or otherwise as the Board may determine in accordance with the Group's remuneration policy. Under the articles of association, Directors currently are not required to hold any share qualification. However, the remuneration policy mandates a shareholding guideline for executive directors which they are expected to build towards over a specified period.

Annual general meetings

Pursuant to the Companies Act 2006, the Company must hold an annual general meeting ('AGM') (within six months beginning with the day following its accounting reference date) at a place and time determined by the board. The following matters are usually considered at an annual general meeting:

- approving final dividends;
- consideration of the accounts and balance sheet;
- ordinary reports of the board of directors and auditors and any other documents required to be annexed to the balance sheet;
- the appointment or election of directors Notwithstanding the provisions of the Articles, the board has resolved that all directors should offer themselves for re-election annually, in accordance with the UK Corporate Governance Code;
- appointment or reappointment of, and determination of the remuneration of, the auditors; and
- the renewal, limitation, extension, variation or grant of any authority to the board in relation to the allotment of securities.

The board may call a general meeting whenever it thinks fit. If at any time there are not within the United Kingdom sufficient directors capable of acting to form a quorum, any director or any two members may convene a general meeting in the same manner as nearly as possible as that in which meetings may be convened by the board.

No business shall be dealt with at any general meeting unless a quorum is present when the meeting proceeds to business. Three members present in person and entitled to vote shall be a quorum for all purposes. A corporation being a member shall be deemed to be personally present if represented by its duly authorized representative.

If a quorum for a meeting convened at the request of shareholders is not present within fifteen minutes of the appointed time, the meeting will be dissolved. In any other case, the general meeting will be adjourned to the same day in the next week, at the same time and place, or to a time and place that the chair fixes. If at that rescheduled meeting a quorum is not present within fifteen minutes from the time appointed for holding the meeting, the shareholders present in person or by proxy will be a quorum. The chair or, in his absence, the deputy chair or any other director nominated by the board, will preside as chair at every general meeting. If no director is present at the general meeting or no director consents to act as chair, the shareholders present shall elect one of their number to be chair of the meeting.

Share Certificates

Every person whose name is entered as a member in the Company's Register of Members shall be entitled to one certificate in respect of each class of shares held (the law regarding this does not apply to stock exchange nominees). Subject to the terms of issue of the shares, certificates are issued following allotment or receipt of the relevant transfer by the Group's registrar, Equiniti, Aspect House, Spencer Road, Lancing, West Sussex, BN99 6DA, United Kingdom, telephone number +44 121-415-7062.

Share capital

Any share may be issued with such preferred, deferred or other special rights or other restrictions as may be determined by way of a shareholders' vote in general meeting. Subject to the Companies Act 2006, any shares may be issued which are to be redeemed or are liable to be redeemed at the option of the Company or the shareholders.

There are no provisions in the Articles of Association which discriminate against any existing or prospective shareholder as a result of such shareholder owning a substantial number of shares.

Subject to the terms of the shares which have been issued, the directors may from time to time make calls upon the shareholders in respect of any moneys unpaid on their shares, provided that (subject to the terms of the shares so issued) no call on any share shall be payable at less than fourteen clear days from the last call. The directors may, if they see fit, receive from any shareholder willing to advance the same, all and any part of the moneys uncalled and unpaid upon any shares held by him.

Changes in capital

The Group may, from time to time by ordinary resolution subject to the Companies Act 2006:

- consolidate and divide all or any of its share capital into shares of a larger nominal amount than its existing shares; or
- sub-divide all of or any of its existing shares into shares of smaller nominal amounts.

The Group may, from time to time increase its share capital by allotting new shares in accordance with the prescribed threshold authorized by shareholders at the last annual general meeting and subject to the consents and procedures required by the Companies Act 2006, may by special resolution reduce its share capital.

Voting rights

Every holder of ordinary shares present in person or by proxy at a meeting of shareholders has one vote on a vote taken by a show of hands. On a poll, every holder of ordinary shares who is present in person or by proxy has one vote for every twenty-five pence of nominal share capital (being one ordinary share) of which he or she is the holder. Voting at any meeting of shareholders is usually on a poll rather than by show of hands. Voting on a poll is more transparent and equitable because it includes the votes of all shareholders, including those cast by proxies, rather than just the votes of those shareholders who attend the meeting. A poll may be also demanded by:

- the chair of the meeting;
- at least three shareholders present in person or by proxy and entitled to vote;
- any shareholder or shareholders present in person or by proxy representing not less than one-tenth of the total voting rights of all shareholders having the right to vote at the meeting; or
- any shareholder or shareholders present in person or by proxy holding shares conferring a right to vote at the meeting being shares on which the aggregate sum paid up is equal to not less than one-tenth of the total sum paid up on all shares conferring that right.

Dividends

Holders of ordinary shares are entitled to receive dividends out of Group profits that are available by law for distribution, as the Group may declare by ordinary resolution, subject to the terms of issue thereof. However, no

dividends may be declared in excess of an amount recommended by the board of directors. The board may pay interim dividends on the shares of any class as it deems fit. It may invest or otherwise use all dividends left unclaimed for six months after having been declared for its benefit, until claimed. All dividends unclaimed for a period of twelve years after having been declared will be forfeited and revert to the Group.

The directors may, with the sanction of an ordinary resolution of the shareholders, offer any holders of ordinary shares the right to elect to receive ordinary shares credited as fully paid, in whole or in part, instead of cash in respect of such dividend.

The directors may deduct from any dividend payable to any shareholder all sums of money (if any) presently payable by that shareholder to the Group on account of calls or otherwise in relation to its shares.

Liquidation rights

In the event of the Group's liquidation, after payment of all liabilities, its remaining assets would be used to repay the holders of ordinary shares the amount they paid for their ordinary shares. Any balance would be divided among the holders of ordinary shares in proportion to the nominal amount of the ordinary shares held by them.

Other provisions of the articles of association

Whenever the Group's capital is divided into different classes of shares, the special rights attached to any class may, unless otherwise provided by the terms of the issue of the shares of that class, be varied or abrogated, either with the written consent of the holders of three-fourths of the issued shares of the class (excluding any issued as treasury shares) or with the sanction of a special resolution passed at a separate meeting of these holders. In the event that a shareholder or other person appearing to the board of directors to be interested in ordinary shares fails to comply with a notice requiring him or her to provide information with respect to their interest in voting shares pursuant to section 793 of the Companies Act 2006, the board may serve that shareholder with a notice of default. After service of a default notice, that shareholder shall not be entitled to attend or vote at any general meeting or at a separate meeting of holders of a class of shares or on a poll until he or she has complied in full with the Group's information request.

If the shares described in the default notice represent at least one-fourth of 1% in nominal value of the issued ordinary shares, then the default notice may additionally direct that in respect of those shares:

- the Group will not pay dividends (or issue shares in lieu of dividends); and
- the Group will not register transfers of shares unless the shareholder is not himself in default as regards supplying the information requested and the transfer, when presented for registration, is in such form as the board of directors may require to the effect that after due and careful inquiry, the shareholder is satisfied that no person in default is interested in any of the ordinary shares which are being transferred or the transfer is an approved transfer, as defined in the Group's articles of association.

No provision of the articles of association expressly governs the ordinary share ownership threshold above which shareholder ownership must be disclosed. Under the Disclosure and Transparency Rules of the Financial Conduct Authority, any person who acquires, either alone or, in specified circumstances, with others an interest in the Group's voting share capital equal to or in excess of 3% comes under an obligation to disclose prescribed particulars to the Group in respect of those ordinary shares. A disclosure obligation also arises where a person's notifiable interests fall below 3%, or where, at or above 3%, the percentage of the Group's voting share capital in which a person has a notifiable interest increases or decreases by 1% or more.

Limitations affecting holders of ordinary shares or ADSs

Under English law and articles of association, persons who are neither UK residents nor UK nationals may freely hold, vote and transfer ordinary shares in the same manner as UK residents or nationals.

With respect to the items discussed above, applicable UK law is not materially different from applicable US law.

Material contracts

The Group has not entered into any contracts outside the ordinary course of business during the two-year period immediately preceding the date of this annual report. The Trust Deed entered into in 2015 with respect to €500.0 million aggregate principal amount of 1.375% guaranteed notes due 2025, issued by a subsidiary and guaranteed by Pearson, is filed as Exhibit 2.6 of this report.

Executive employment contracts

The Group has entered into agreements with each of its executive directors pursuant to which such executive director is employed by the Group. These agreements describe the duties of such executive director and the compensation to be paid by us. See “Item 6. Directors, Senior Management and Employees — Compensation of Senior Management”.

It is the Group’s policy that it may terminate the executive directors’ service agreements by giving no more than 12 months’ notice. As an alternative, the Group may at its discretion pay in lieu of that notice. Payment-in-lieu of notice may be made in equal monthly installments from the date of termination to the end of any unexpired notice period. In the case of the CEO, payment-in-lieu of notice in installments may also be subject to mitigation and reduced taking into account earnings from alternative employment. For executive directors, pay in lieu of notice comprises 100% of the annual salary at the date of termination and the annual cost to the company of providing pension and all other benefits. In limited circumstances, in addition to making a full payment in lieu of notice, the Group may permit an executive director to stay employed after the announcement of his or her departure for a limited period to ensure an effective hand-over and/or allow time for a successor to be appointed. The Group may, depending on the circumstances of the termination, determine that it will not pay the director in lieu of notice and may instead terminate a director’s contract in breach and make a damages payment, taking into account as appropriate the director’s ability to mitigate his or her loss.

Exchange controls

There are no UK government laws, decrees, regulations or other legislation which restrict or which may affect the import or export of capital, including the availability of cash and cash equivalents for use by us or the remittance of dividends, interest or other payments to nonresident holders of the Group’s securities, except as otherwise described under “— Tax Considerations” below.

Tax considerations

The following is a discussion of the material US federal income tax considerations and UK tax considerations arising from the acquisition, ownership and disposition of ordinary shares and ADSs by a US holder. A US holder is:

- an individual citizen or resident of the US, or
- a corporation created or organized in or under the laws of the US or any of its political subdivisions, or
- an estate or trust the income of which is subject to US federal income taxation regardless of its source.

This discussion deals only with ordinary shares and ADSs that are held as capital assets by a US holder, and does not address tax considerations applicable to US holders that may be subject to special tax rules, such as:

- dealers or traders in securities or currencies,

- financial institutions or other US holders that treat income in respect of the ordinary shares or ADSs as financial services income,
- insurance companies,
- tax-exempt entities,
- persons acquiring shares or ADSs in connection with employment,
- US holders that hold the ordinary shares or ADSs as a part of a straddle or conversion transaction or other arrangement involving more than one position,
- US holders that own, or are deemed for US tax purposes to own, 10% or more of the total combined voting power of all classes of the Group’s voting stock,
- US holders that have a principal place of business or “tax home” outside the United States, or
- US holders whose “functional currency” is not the US dollar.

For US federal income tax purposes, holders of ADSs will be treated as the owners of the ordinary shares represented by those ADSs. In practice, HM Revenue & Customs (HMRC) will also regard holders of ADSs as the beneficial owners of the ordinary shares represented by those ADSs, although case law has cast some doubt on this. The discussion below assumes that HMRC’s position is followed.

In addition, the following discussion assumes that The Bank of New York Mellon will perform its obligations as depository in accordance with the terms of the depository agreement and any related agreements.

Because US and UK tax consequences may differ from one holder to the next, the discussion set out below does not purport to describe all of the tax considerations that may be relevant to you and your particular situation. Accordingly, you are advised to consult your own tax advisor as to the US federal, state and local, UK and other, including foreign, tax consequences of investing in the ordinary shares or ADSs. Except where otherwise indicated, the statements of US and UK tax law set out below are based on the laws, interpretations and tax authority practice in force or applicable as of February 29, 2020 and are subject to any changes occurring after that date, possibly with retroactive effect.

UK income taxation of distributions

The UK does not impose dividend withholding tax on dividends paid by the Company.

A US holder that is not resident in the UK for UK tax purposes and does not carry on a trade, profession or vocation in the UK through a branch or agency (or in the case of a company a permanent establishment) to which the ordinary shares or ADSs are attributable will not generally be liable to pay UK tax on dividends paid by the Company.

US income taxation of distributions

Distributions that the Group makes with respect to the ordinary shares or ADSs, other than distributions in liquidation and distributions in redemption of stock that are treated as exchanges, will be taxed to US holders as ordinary dividend income to the extent that the distributions do not exceed the Group’s current and accumulated earnings and profits. The amount of any distribution will equal the amount of the cash distribution. Distributions, if any, in excess of the Group’s current and accumulated earnings and profits will constitute a non-taxable return of capital to a US holder and will be applied against and reduce the US holder’s tax basis in its ordinary shares or ADSs. To the extent that these distributions exceed the tax basis of the US holder in its ordinary shares or ADSs, the excess generally will be treated as capital gain.

Dividends that the Group pays will not be eligible for the dividends received deduction generally allowed to US corporations under Section 243 of the Code.

In the case of distributions in pounds sterling, the amount of the distributions generally will equal the US dollar value of the pounds sterling distributed, determined by reference to the spot currency exchange rate on the date of receipt of the distribution by the US holder in the case of shares or by The Bank of New York Mellon in the case of ADSs, regardless of whether the US holder reports income on a cash basis or an accrual basis. The US holder will realize separate foreign currency gain or loss only to the extent that this gain or loss arises on the actual disposition of pounds sterling received. For US holders claiming tax credits on a cash basis, taxes withheld from the distribution are translated into US dollars at the spot rate on the date of the distribution; for US holders claiming tax credits on an accrual basis, taxes withheld from the distribution are translated into US dollars at the average rate for the taxable year.

A distribution by the Company to non-corporate shareholders will be taxed as net capital gain at a maximum rate of 20%, provided certain holding periods are met, to the extent such distribution is treated as a dividend under US federal income tax principles. In addition, a 3.8% Medicare tax will generally be imposed on the net investment income, which generally would include distributions treated as dividends under US federal income tax principles, of non-corporate taxpayers whose adjusted gross income exceeds a threshold amount.

UK taxation of capital gains

A US holder that is not resident in the UK for UK tax purposes and does not carry on a trade, profession or vocation in the UK through a branch or agency (or in the case of a company a permanent establishment) to which the ordinary shares or ADSs are attributable will not generally be liable for UK taxation on capital gains or eligible for relief for allowable losses, realized on the sale or other disposal of the ordinary shares or ADSs.

A US holder who is an individual who has been resident for tax purposes in the UK but who ceases to be so resident or becomes regarded as resident outside the UK for the purposes of any double tax treaty (“Treaty Non-resident”) and continues to not be resident in the UK, or continues to be Treaty Non-resident, for a period of five years or less and who disposes of his ordinary shares or ADSs during that period may also be liable on his return to the UK to UK tax on capital gains, subject to any available exemption or relief, even though he is not resident in the UK, or is Treaty Non-resident, at the time of the disposal.

US income taxation of capital gains

Upon a sale or exchange of ordinary shares or ADSs to a person other than Pearson, a US holder will recognize gain or loss in an amount equal to the difference between the amount realized on the sale or exchange and the US holder’s adjusted tax basis in the ordinary shares or ADSs. Any gain or loss recognized will be capital gain or loss and will be long-term capital gain or loss if the US holder has held the ordinary shares or ADSs for more than one year. Long-term capital gain of a non-corporate US holder is generally taxed at a maximum rate of 20%. In addition, a 3.8% Medicare tax will generally be imposed on the net investment income, which generally would include capital gains, of non-corporate taxpayers whose adjusted gross income exceeds a threshold amount.

Gain or loss realized by a US holder on the sale or exchange of ordinary shares or ADSs generally will be treated as US-source gain or loss for US foreign tax credit purposes.

Estate and gift tax

The current Estate and Gift Tax Convention (referred to in this paragraph as the “Convention”), between the US and the UK generally relieves from UK inheritance tax (the equivalent of US estate and gift tax) the transfer of ordinary shares or of ADSs where the transferor is domiciled in the US for the purposes of the Convention. This relief will not apply if the ordinary shares or ADSs are part of the business property of an individual’s permanent establishment in the UK or pertain to the fixed base in the UK of a person providing independent personal services. If no relief is given under the Convention, inheritance tax may be charged on death and also on the amount by which the value of an individual’s estate is reduced as a result of any transfer made by way of gift

or other gratuitous or undervalue transfer, in general within seven years of death, and in certain other circumstances. In the unusual case where ordinary shares or ADSs are subject to both UK inheritance tax and US estate or gift tax, the Convention generally provides for tax paid in the UK to be credited against tax payable in the US or for tax paid in the US to be credited against tax payable in the UK based on priority rules set forth in the Convention.

Stamp duty

No stamp duty or stamp duty reserve tax (SDRT) will generally be payable in the UK on the purchase or transfer of an ADS, provided that the ADS, and any separate instrument or written agreement of transfer, remain at all times outside the UK and that the instrument or written agreement of transfer is not executed in the UK. Subject to the following paragraph, UK legislation does however provide for SDRT or (in the case of transfers) stamp duty to be chargeable at the rate of 1.5% of the amount or value of the consideration or, in some circumstances, the value of the ordinary shares (rounded up to the next multiple of £5 in the case of stamp duty), where ordinary shares are issued or transferred to a person whose business is or includes issuing depository receipts, or to a nominee or agent for such a person, or issued or transferred to a person whose business is or includes the provision of clearance services or to a nominee or agent for such a person.

Following litigation, HM Revenue & Customs (HMRC) has accepted that it will no longer seek to apply the 1.5% SDRT charge when new shares are issued to a clearance service or depository receipt system on the basis that the charge is not compatible with EU law. The UK Government have announced their intention to continue with this approach following the UK's departure from the EU. HMRC's view is that the 1.5% SDRT or stamp duty charge will continue to apply to transfers of shares into a clearance service or depository receipt system, unless they are an integral part of an issue of share capital. However, further litigation indicates that certain other transfers are also not chargeable under EU law. Accordingly, specific professional advice should be sought before paying the 1.5% SDRT or stamp duty charge in any circumstances.

A transfer for value of the underlying ordinary shares will generally be subject to either stamp duty or SDRT, normally at the rate of 0.5% of the amount or value of the consideration (rounded up to the next multiple of £5 in the case of stamp duty). A transfer of ordinary shares from a nominee to its beneficial owner, including the transfer of underlying ordinary shares from the Depository to an ADS holder, under which no beneficial interest passes will not be subject to stamp duty or SDRT.

Close company status

The Group believes that the close company provisions of the UK Corporation Tax Act 2010 do not apply to it.

Documents on display

Copies of the Group's Memorandum and Articles of Association are filed as exhibits to this Annual Report and certain other documents referred to in this Annual Report are available for inspection at its registered office at 80 Strand, London WC2R 0RL (c/o the Company Secretary), during usual business hours upon reasonable prior request.

ITEM 11. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Introduction

Pearson's treasury policies set out the group's principles for addressing key financial risks including capital risk, liquidity risk, foreign exchange risk and interest rate risk and sets out measurable targets for each. The Audit Committee receive quarterly reports incorporating compliance with these measurable targets and review and approve the treasury policies annually.

The treasury function is permitted to use derivatives where their use reduces a risk or allows a transaction to be undertaken more cost effectively. Derivatives permitted include swaps, forwards and collars to manage foreign exchange and interest rate risk, with foreign exchange swap and forward contracts the most commonly executed. Speculative transactions are not permitted.

Capital risk

The Group's objectives when managing capital are:

- To maintain a strong balance sheet and a solid investment grade rating;
- To continue to invest in the business;
- To have a sustainable and progressive dividend policy, and;
- To return surplus cash to our shareholders where appropriate.

The Group is currently rated BBB (negative outlook) with Standard and Poor's and Baa2 (stable outlook) with Moody's.

Interest and foreign exchange rate management

The Group's principal currency exposure is to the US dollar (USD) which represents more than 60% of the Group's sales. A portion of the Group's debt is held in US dollars to provide a natural hedge of this exposure.

Pearson achieves this mix in one of three ways:

1. Issuing fixed rate debt in USD;
2. Issuing fixed debt in euro and swapping it to British Pounds Sterling (GBP) either at fixed or floating rates and swapping an element to USD either using cross currency swaps or foreign exchange swaps;
3. Borrowing in USD at floating rates on the group's bank facility.

At December 31, 2019, the group had swap contracts and fixed rate bonds to fix the interest rate on \$1,058m (2018: \$477m) of total fixed debt, excluding leases.

Liquidity and re-financing risk management

The Group regularly reviews the level of cash and debt facilities required to fund its activities. This involves preparing a prudent cash flow forecast for the next three to five years, determining the level of debt facilities required to fund the business, planning for repayments of debt at its maturity and identifying an appropriate amount of headroom to provide a reserve against unexpected outflows.

At December 31, 2019, the Group had cash of £0.4 billion and was drawn at £230m/\$303m of \$1.9bn (£902m) US dollar denominated revolving credit facility due 2024.

At December 31, 2018, the Group had cash of £0.5 billion and an undrawn US dollar denominated revolving credit facility of \$1.75 billion (£1.4 bn) due 2021.

The \$1.19 billion facility contains interest cover and leverage covenants which the Group has complied with for both the years ended December 31, 2018 and December 31, 2019.

Financial counterparty risk management

Counterparty credit limits, which take published credit rating and other factors into account, are set to cover the Group's total aggregate exposure to a single financial institution. The limits applicable to published credit ratings bands are approved by the chief financial officer within guidelines approved by the board. Exposures and limits applicable to each financial institution are reviewed on a regular basis.

ITEM 12. DESCRIPTION OF SECURITIES OTHER THAN EQUITY SECURITIES

AMERICAN DEPOSITARY SHARES

Fees paid by ADR holders

The Group's ordinary shares trade in the United States under a sponsored ADR facility with The Bank of New York Mellon as depositary.

The depositary collects its fees for delivery and surrender of ADSs directly from investors depositing shares or surrendering ADSs for the purpose of withdrawal, or from intermediaries acting for them. The depositary collects fees for making distributions to investors by deducting those fees from the amounts distributed or by selling a portion of distributable property to pay the fees. The depositary may collect its annual fee for depositary services by deductions from cash distributions or by directly billing investors or by charging the book-entry system accounts of participants acting for them. The depositary may generally refuse to provide fee-attracting services until its fees for those services are paid.

The following table summarizes various fees currently charged by The Bank of New York Mellon:

<u>Person depositing or withdrawing shares must pay to the depositary:</u>	<u>For:</u>
\$5.00 (or less) per 100 ADSs (or portion of 100 ADSs)	<ul style="list-style-type: none">• Issuance of ADSs, including issuances resulting from a distribution of shares or rights or other property •• Cancellation of ADSs for the purpose of withdrawal, including if the deposit agreement terminates
\$.05 (or less) per ADS A fee equivalent to the fee that would be payable if securities distributed had been shares and the shares had been deposited for issuance of ADSs	<ul style="list-style-type: none">• Any cash distribution to ADS registered holders• Distribution of securities by the depositary to ADS registered holders of deposited securities
\$.05 (or less) per ADS per calendar year	<ul style="list-style-type: none">• Depositary services
Registration of transfer fees	<ul style="list-style-type: none">• Transfer and registration of shares on the share register to or from the name of the depositary or its agent when shares are deposited or withdrawn
Expenses of the depositary	<ul style="list-style-type: none">• Cable, telex and facsimile transmissions (when expressly provided in the deposit agreement)• Converting foreign currency to US dollars
Taxes and other governmental charges the depositary or the custodian have to pay on any ADS or share underlying an ADS, for example, stock transfer taxes, stamp duty or withholding taxes	<ul style="list-style-type: none">• As necessary
Any charges incurred by the depositary or its agents for servicing the deposited securities	<ul style="list-style-type: none">• As necessary

Fees incurred in past annual period and fees to be paid in the future

The Company received \$70,223 as reimbursement from the depositary with respect to 2019 for standard out-of-pocket maintenance costs for the ADRs (consisting of the expenses of postage and envelopes for mailing the proxy voting materials, and tabulation for the non-registered holders, any applicable performance indicators relating to the ADR facility, and legal fees).

The depositary has agreed to reimburse the Company for expenses they incur that are related to establishment and maintenance expenses of the ADS program. The depositary also agrees to pay the standard out-of-pocket maintenance costs for the registered ADR holders, which consists of the expenses of postage and envelopes for mailing proxy voting materials, printing and distributing dividend cheques, electronic filing of US Federal tax information, mailing required tax forms, stationery, postage, facsimile and telephone calls. It has also agreed to reimburse the Company annually for certain investor relationship programs or special investor relations promotional activities. In certain instances, the depositary has agreed to provide additional payments to the Company based on any applicable performance indicators relating to the ADR facility. There are limits on the amount of expenses for which the depositary will reimburse the Company, but the amount of reimbursement available to the Company is not necessarily tied to the amount of fees the depositary collects from investors.

PART II

ITEM 13. *DEFAULTS, DIVIDEND ARREARAGES AND DELINQUENCIES*

None.

ITEM 14. *MATERIAL MODIFICATIONS TO THE RIGHTS OF SECURITY HOLDERS AND USE OF PROCEEDS*

None.

ITEM 15. *CONTROLS AND PROCEDURES*

Disclosure controls and procedures

An evaluation of the effectiveness the Group's disclosure controls and procedures as of December 31, 2019 was carried out by management, under the supervision and with the participation of the Chief Executive Officer and Chief Financial Officer. Based on that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that the Company's disclosure controls and procedures (as defined in Rules 13a- 15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended) were effective as at December 31, 2019 at a reasonable assurance level. A controls system, no matter how well designed and operated, cannot provide absolute assurance to achieve its objectives.

Management's annual report on internal control over financial reporting

Management is responsible for establishing and maintaining adequate internal control over financial reporting for the Company. Internal control over financial reporting is a process designed by, or under the supervision of, the Chief Executive Officer and Chief Financial Officer, or persons performing similar functions, and effected by the Company's board of directors, management and other personnel to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. Management has assessed the effectiveness of internal control over financial reporting as of December 31, 2019 based on the framework in *Internal Control — Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission ("COSO"). Based on this evaluation, management has concluded that the Company's internal control over financial reporting was effective as of December 31, 2019 based on criteria in *Internal Control — Integrated Framework* (2013) issued by the COSO.

PricewaterhouseCoopers LLP, an independent registered public accounting firm, has audited the effectiveness of the Company's internal control over financial reporting as of December 31, 2019, as stated in their report which appears on page F-2.

Change in internal control over financial reporting

During the period covered by this Annual Report on Form 20-F, the Company has embarked on a program of work to deliver a single Pearson-wide solution to integrate data, systems and processes across human resources, finance, procurement and supply chain. This program went live in the UK in 2016, in the US in 2018 and remaining countries in 2019, with a resulting change in some aspects of the control environment. Other than the foregoing, there have been no changes in our internal control over financial reporting during the year ended December 31, 2019 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

ITEM 16A. *AUDIT COMMITTEE FINANCIAL EXPERT*

The members of the Board of Directors of Pearson plc have determined that Tim Score is an audit committee financial expert within the meaning of the applicable rules and regulations of the US Securities and Exchange Commission.

ITEM 16B. CODE OF ETHICS

Pearson has adopted a code of ethics (the Pearson code of conduct) which applies to all employees including the chief executive officer and chief financial officer and other senior financial management. This code of ethics is available on the Group's website (www.pearson.com/corporate/code-of-conduct.html). The information on this website is not incorporated by reference into this report.

ITEM 16C. PRINCIPAL ACCOUNTANT FEES AND SERVICES

In line with best practice, the Group's relationship with PricewaterhouseCoopers LLP (PwC) is governed by its external auditor policy, which is reviewed and approved annually by the audit committee. The policy establishes procedures to ensure the auditors' independence is not compromised as well as defining those non-audit services that PwC may or may not provide to Pearson. These allowable services are in accordance with relevant UK and US legislation.

The audit committee approves all audit and non-audit services provided by PwC. Where appropriate, services will be tendered prior to awarding this work to the auditor.

The following table sets forth remuneration paid to PwC for 2019 and 2018:

<u>Auditors' Remuneration</u>	<u>2019</u>	<u>2018</u>
	<u>£m</u>	<u>£m</u>
Audit fees	7	6
Tax fees	—	—
Audit-related fees	—	1
All other fees	—	1

Audit fees include £35,000 (2018: £35,000) of audit fees relating to the audit of the parent company.

Fees for the audit of the effectiveness of the Group's internal control over financial reporting are allocated to audit fees paid.

Included in audit related fees is audit related work in relation to disposal transactions and other assurance work related to the audit of the Group's efficacy program.

ITEM 16D. EXEMPTIONS FROM THE LISTING STANDARDS FOR AUDIT COMMITTEES

Not applicable.

ITEM 16E. PURCHASES OF EQUITY SECURITIES BY THE ISSUER AND AFFILIATED PURCHASES

<u>Period</u>	<u>Total number of shares purchased</u>	<u>Average price paid per share</u>	<u>Total number of units purchased as part of publicly announced plans or programs</u>	<u>Approximate maximum value of shares that may yet be purchased under the plans or programs</u>
October 1, 2017 – October 31, 2017	4,846,809	£7.03	4,846,809	£266m
November 1, 2017 – November 30, 2017	11,210,922	£6.99	11,210,922	£187m
December 1, 2017 – December 31, 2017	4,938,170	£7.23	4,938,170	£151m
January 1, 2018 – January 31, 2018	9,895,690	£7.03	9,895,690	£ 81m
February 1, 2018 – February 28, 2018	11,943,986	£6.77	11,943,986	£ 22m
February 1, 2019 – February 28, 2019	1,500,000	£8.97	n/a	n/a
March 1, 2019 – March 31, 2019	3,000,000	£8.74	n/a	n/a
October 1, 2019 – October 31, 2019	1,600,000	£7.39	n/a	n/a
January 1, 2020 – January 31, 2020	6,680,158	£5.80	6,680,158	£310m
February 1, 2020 – February 29, 2020	9,958,033	£5.72	9,958,033	£ 253

All purchases were made in open-market transactions.

Purchases of shares in 2019 were made to satisfy obligations under Pearson employee share award programs. None of the foregoing share purchases was made as part of a publicly announced plan or program.

In January 2020, the Group announced a £350m share buyback program. In 2020, the Group's brokers purchased 16.9m shares at a total value of £97m. All shares had been cancelled at February 29, 2020. The shares bought back were cancelled and the nominal value of these shares was transferred to a capital redemption reserve. The nominal value of shares cancelled at December 31, 2019 was £nil (2018: £11m).

As a result of COVID-19 pandemic, and with a likelihood of prolonged uncertainty, the share buyback program has, as of 23 March 2020, been paused until further notice.

ITEM 16F. CHANGE IN REGISTRANT'S CERTIFYING AUDITOR

Not applicable.

ITEM 16G. CORPORATE GOVERNANCE

Pearson is listed on the New York Stock Exchange ("NYSE"). As a listed non-US issuer, the Group is required to comply with some of the NYSE's corporate governance rules, and otherwise must disclose on its website any significant ways in which its corporate governance practices differ from those followed by US companies under the NYSE listing standards. At this time, the Company believes that it is in compliance in all material respects with all the NYSE rules except that the Remuneration Committee and the Nomination & Governance Committee are not composed entirely of independent directors as the Chairman, who is not considered independent under NYSE rules, is a member of each committee in addition to independent directors.

ITEM 16H. MINE SAFETY DISCLOSURE

Not applicable.

PART III

ITEM 17. *FINANCIAL STATEMENTS*

Not applicable.

ITEM 18. *FINANCIAL STATEMENTS*

The financial statements filed as part of this Annual Report are included on pages F-1 through F-95 hereof.

ITEM 19. *EXHIBITS*

- 1.1 Articles of Association of Pearson plc. ∞
- 2.1 Indenture dated May 8, 2012 between Pearson Funding Four plc, as the Issuer, Pearson plc, Guarantor, and The Bank of New York Mellon, as trustee, Paying Agent and Calculation Agent φ
- 2.2 Indenture dated May 8, 2013 between Pearson Funding Five plc, as the Issuer, Pearson plc, Guarantor, and The Bank of New York Mellon, as trustee, Paying Agent and Calculation Agent. θ
- 2.3 Trust Deed dated May 19, 2014 between Pearson Funding Five plc, as the Issuer, Pearson plc, Guarantor, and The Law Debenture Trust Corporation P.L.C, as trustee. ∞
- 2.4 Trust Deed dated May 6, 2015 between Pearson Funding Five plc, as the Issuer, Pearson plc, Guarantor, and The Law Debenture Trust Corporation P.L.C, as trustee. λ
- 2.5 Indenture dated September 5, 2019 between Pearson Funding Four plc, as the Company, Pearson plc, Guarantor and The Bank of New York Mellon, as trustee, Paying Agent and Calculation Agent.
- 2.6 Description of securities of Pearson plc.
- 8.1 List of Significant Subsidiaries.
- 12.1 Certification of Chief Executive Officer.
- 12.2 Certification of Chief Financial Officer.
- 13.1 Certification of Chief Executive Officer.
- 13.2 Certification of Chief Financial Officer.
- 15.1 Consent of PricewaterhouseCoopers LLP.
- 101.INS XBRL Instance Document.
- 101.SCH XBRL Taxonomy Extension Schema Document
- 101.CAL XBRL Taxonomy Extension Calculation Linkbase Document.
- 101.DEF XBRL Taxonomy Extension Definition Linkbase Document.
- 101.LAB XBRL Taxonomy Extension Label Linkbase Document.
- 101.PRE XBRL Taxonomy Extension Presentation Linkbase Document.

φ Incorporated by reference from the Form 20-F of Pearson plc for the year ended December 31, 2012 and filed March 22, 2013

θ Incorporated by reference from the Form 20-F of Pearson plc for the year ended December 31, 2013 and filed March 27, 2014.

∞ Incorporated by reference from the Form 20-F of Pearson plc for the year ended December 31, 2014 and filed March 26, 2015.

λ Incorporated by reference from the Form 20-F of Pearson plc for the year ended December 31, 2015 and filed March 23, 2016.

[THIS PAGE INTENTIONALLY LEFT BLANK]

FINANCIAL STATEMENTS: CONTENTS

Pearson plc Consolidated Financial Statements

Report of Independent Registered Public Accounting Firm	F-2
Consolidated Income Statement for the year ended December 31, 2019, 2018 and 2017	F-8
Consolidated Statement of Comprehensive Income for the year ended December 31, 2019, 2018 and 2017	F-9
Consolidated Balance Sheet as at December 31, 2019 and 2018	F-10
Consolidated Statement of Changes in Equity for the year ended December 31, 2019, 2018 and 2017	F-12
Consolidated Cash Flow Statement for the year ended December 31, 2019, 2018 and 2017	F-14
Notes to the Consolidated Financial Statements	F-15

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Shareholders of Pearson plc

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Pearson plc and its subsidiaries (the “Company”) as of December 31, 2019 and 2018 and the related consolidated income statements, consolidated statements of comprehensive income, consolidated statements of changes in equity and consolidated cash flow statements for each of the three years in the period ended December 31, 2019, including the related notes (collectively referred to as the “consolidated financial statements”). We also have audited the Company’s internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018 and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019 in conformity with International Financial Reporting Standards as issued by the International Accounting Standards Board and International Financial Reporting Standards as adopted by the European Union. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control — Integrated Framework (2013) issued by the COSO.

Change in Accounting Principle

As discussed in note 1b to the consolidated financial statements, the Company changed the manner in which it accounted for leases in 2019 due to the adoption of IFRS 16.

Basis for Opinions

The Company’s management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in “Management’s Annual Report on Internal Control over Financial Reporting” appearing under Item 15 of this Form 20-F. Our responsibility is to express opinions on the Company’s consolidated financial statements and on the Company’s internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions or that the degree of compliance with the policies or procedures may deteriorate.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the consolidated financial statements that were communicated or required to be communicated to the audit committee and that (i) relate to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Carrying value of goodwill

As described in note 11 to the consolidated financial statements, the Company's goodwill balance was £2,139 million as of December 31, 2019. Goodwill has been allocated to cash generating units ("CGUs") or to an aggregation of CGUs where goodwill could not be reasonably allocated to individual CGUs. CGUs have been revised in 2019 as a result of organisation changes and system consolidation. As a result, goodwill has been reallocated to these revised CGUs. Goodwill is tested at least annually for impairment. The recoverable amount of each aggregated CGU is based on the higher of value in use and fair value less costs of disposal. The value in use was higher than the fair value less costs of disposal for each of the CGUs. For the purpose of estimating value in use, management has used an income approach based on present value techniques. These calculations require management judgement in respect of the use of estimates for discount rates, perpetuity growth rates and sales and operating profit forecasts. In evaluating the implications of subsequent events on the Company's impairment judgments as of December 31, 2019, management has separately determined that COVID-19 is a non-adjusting post balance sheet event.

The principal considerations for our determination that performing procedures relating to the carrying value of goodwill is a critical audit matter are that there were judgments and estimates made by management in determining the revised CGUs, in reallocating goodwill to the CGUs and in determining the recoverable amount of the CGUs. This in turn led to a high degree of auditor judgment, subjectivity, and effort in performing procedures to evaluate management's CGU assessment and goodwill allocation and the present value techniques used to calculate value in use such as sales and operating profit forecasts and significant assumptions, including discount rates and perpetuity growth rates. In addition, the audit effort involved the use of professionals with specialized skill and knowledge to assist in performing these procedures and in evaluating the audit evidence obtained.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to management's impairment assessment of the carrying value of goodwill. These procedures also included, among others:

- testing management's CGU reassessment and reallocation of goodwill, including evaluating the methodology applied by management to reallocate goodwill and testing the mathematical accuracy of the allocation exercise. We assessed whether goodwill is monitored or measured at a level lower than management's revised CGU groupings;
- testing the mathematical integrity of management's value in use impairment model and the forecasts and carrying values used;
- comparing the forecast cash flows (which include forecast sales and operating profit) to board approved budgets and strategic plans and assessing how these budgets and strategic plans are compiled, including an assessment of historical accuracy of budgets;
- evaluating management's related judgments and estimates, including short-term revenue and operating profit projections;
- comparing management's forecasts and key assumptions to industry projections and to comparable companies where this information was available;
- using professionals with specialized skill and knowledge to assist in evaluating the appropriateness of the perpetuity growth rate and discount rate for each CGU by comparison with third party information, past performance and relevant risk factors;
- evaluating management's rationale why a longer forecast period until 2030 was appropriate for specific cash flow projections for Online Program Management ("OPM") compared to the three year period covered by the Group's strategic planning process and applied to each of the other CGUs and why management was able to prepare longer-term forecasts for OPM;
- testing the calculation of the impairment charge for Brazil based on value in use and evaluating management's calculation of the fair value less costs of disposal to assess whether that would give rise to a higher recoverable amount;
- performing independent sensitivity analyses to understand the impact of reasonably possible changes to key assumptions;
- evaluating the sufficiency of disclosures in relation to the North American Courseware, OPM, Core and Brazil CGUs where headroom is lower or more sensitive to changes in key assumptions; and
- evaluating management's judgment disclosed in note 37 to the consolidated financial statements that COVID-19 is a non-adjusting post balance sheet event.

Provisions for tax uncertainties

As described in note 7 to the consolidated financial statements, the Company has recorded provisions for tax uncertainties of £152 million as of December 31, 2019. The Company is subject to income taxes in numerous jurisdictions. Significant judgment is required in determining the estimates in relation to the worldwide provisioning for income taxes. There are many transactions and calculations for which the ultimate tax determination is uncertain during the ordinary course of business. The Company recognises tax provisions when it is considered probable that there will be a future outflow of funds to a tax authority. The provisions are based on management's judgment regarding the application of tax legislation, the results of any tax audits, and best estimates of future settlement amounts. The Company discloses tax exposures in respect of unsettled or disputed tax liabilities when it is considered possible that there will be a future outflow of funds to a tax authority.

The principal considerations for our determination that performing procedures relating to provisions for tax uncertainties is a critical audit matter are that there was judgment applied by management when determining uncertain tax positions, including a high degree of estimation uncertainty relative to the application of tax laws, findings of tax audits, and potential for significant adjustments as a result of such audits. This in turn led to a high degree of auditor judgment, subjectivity, and effort in performing procedures to evaluate the timely identification and accurate measurement of provisions for tax uncertainties. Also, the evaluation of audit evidence available to support the provisions for tax uncertainties is complex and required significant auditor judgment as the nature of the evidence is often highly subjective and the audit effort involved the use of professionals with specialized skill and knowledge to assist in performing these procedures and in evaluating the audit evidence obtained.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the identification, completeness and measurement of provisions for tax uncertainties. Using professionals with specialized skill and knowledge to assist in undertaking this testing, these procedures also included, among others:

- assessing the tax impact of business developments in 2019, including the disposal of the US K12 Courseware business;
- recalculating the Company’s tax provisions and considering whether the treatments adopted were in line with the Company’s tax policies and had been applied consistently;
- evaluating the key underlying assumptions. In making this evaluation, the status of tax authority audits and enquiries was considered. We considered the basis and support in particular for provisions not subject to tax audit in comparison with experience of similar situations at comparable companies;
- evaluating the consistency of settled amounts against provisions booked in prior years;
- evaluating the consistency of management’s approach to establishing or changing prior provision estimates and considering whether changes in prior provisions reflected a change in facts and circumstances during 2019; and
- evaluating the basis for management’s judgments where provisions have not been established, including for material potential exposures like EU state aid and the assessment from the Brazilian tax authorities disclosed in note 34 to the consolidated financial statements, and assessing third party advice obtained by the Group as we independently formed our own view about the likelihood of these possible tax risks crystallising in future cash outflows.

Sales return liability

As described in notes 3 and 24 to the consolidated financial statements, the Company’s sales return liability was £122 million as of December 31, 2019. Revenue from the sale of books is recognised net of a provision for anticipated returns. This liability requires management to consider historical return rates, customer buying patterns, and retailer behaviours, including stock levels.

The principal considerations for our determination that performing procedures relating to the sales return liability is a critical audit matter are that there were estimates made by management when determining the level of provisioning. This in turn led to a high degree of auditor judgment, subjectivity, and effort in performing procedures to evaluate management’s significant assumptions, including historical return rates, customer buying patterns and retailer behaviours, including stock levels.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the sales return liability. These procedures also included, among others:

- assessing management’s evaluation of market trends and the Company’s responses and considering whether management’s provisioning methodology is appropriate in this context;
- testing the sales return liability calculation and evaluating the completeness and accuracy of historical sales and return experience data;
- performing detailed testing over shipment and return levels around year-end (and extending through the date of this opinion) and evaluating whether these gave rise to an increased risk of future returns;
- considering whether the reduction in the sales return liability in 2019 is consistent with evidence obtained in other areas of the audit; and
- evaluating whether management has adopted methods and made estimates for future returns that were supportable and appropriate.

Recoverability of pre-publication assets

As described in note 20 to the consolidated financial statements, the Company’s pre-publication assets amounted to £870 million as of December 31, 2019. Pre-publication assets represent direct costs incurred in the development of educational programmes and titles prior to their publication. These costs are recognised as current intangible assets when the title will generate probable future economic benefits and costs can be measured reliably. Pre-publication assets are amortised on publication over their estimated economic lives. The estimate of the economic lives and the recoverability of pre-publication assets involves a significant degree of judgment based on historical trends and management estimates of future potential sales.

The principal considerations for our determination that performing procedures relating to the recoverability of pre-publication assets is a critical audit matter are that there were judgments and estimates applied by management when assessing the estimated economic lives and the recoverability of pre-publication assets, including the application of future potential sales. This in turn led to a high degree of auditor judgment, subjectivity, and effort in performing procedures to evaluate management’s judgments and estimates.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the pre-publication assets. These procedures also included, among others:

- assessing the appropriateness of capitalisation and amortisation policies and considering whether these policies had been consistently applied;
- selecting a sample of costs to test their accuracy and appropriateness for capitalisation;
- evaluating the reasonableness of amortisation periods and profiles compared to sales forecasts and historical sales experience;
- evaluating the carrying value of certain pre-publication assets where products are yet to be launched, are less proven or where sales are lower than originally anticipated; and
- comparing forecast sales with historical experience, including an evaluation of the historical accuracy of budgeting, and obtaining supporting evidence for management’s explanations of variances.

Valuation of other receivables in relation to the disposal of US K12 Courseware

As described in note 14 to the consolidated financial statements, other receivables in relation to the disposal of US K12 Courseware amounted to £182 million as of December 31, 2019. As described in note 31 to the consolidated financial statements, the Company completed the disposal of its US K12 Courseware business in 2019, resulting in a pre-tax profit of £13 million. The total gross proceeds amounted to £200 million of which £180 million was deferred in other receivables at the date of disposal. The deferred proceeds related to an unconditional vendor note for \$225 million and an entitlement to 20% of future cash flows to equity holders and to 20% of net proceeds in the event of a subsequent sale of K12. The fair value of the other receivables on disposal and on subsequent measurement is determined using present value techniques whereby the expected value of future cash flows is discounted using a rate which is representative of the creditworthiness of the US K12 Courseware business. The key inputs used in the present value calculations on initial disposal were forecast sales, discount rate and the expected date of a subsequent sale of the US K12 Courseware business.

The principal considerations for our determination that performing procedures relating to the valuation of other receivables in relation to the disposal of US K12 Courseware is a critical audit matter are that there were judgments and estimates applied by management in establishing the fair value of the other receivables. This in turn led to a high degree of auditor judgment, subjectivity, and effort in performing procedures to evaluate management's judgments and estimates including forecast sales, discount rate and the expected date of a subsequent sale of the US K12 Courseware business. In addition, the audit effort involved the use of professionals with specialized skill and knowledge to assist in performing these procedures and in evaluating the audit evidence obtained.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the valuation of other receivables. These procedures also included, among others:

- assessing management's assumptions on initial disposal related to the expected payment profile of the deferred proceeds, the expected timing of the vendor's potential exit and the estimated equity value of K12 at that time;
- comparing management's assumptions including forecast sales, discount rate and the expected date of a subsequent sale of the US K12 Courseware business against external evidence where available;
- performing independent sensitivity analyses to understand the impact of reasonably possible changes in the key assumptions including forecast sales, discount rate and the expected date of a subsequent sale of the US K12 Courseware business;
- the involvement of professionals with specialized skill and knowledge to assist in testing the appropriateness of the discount rate used to calculate the present value of the future cash flows and to assist with assessing management's valuation methodology for the other receivables; and
- subsequently testing management's remeasurement of the other receivables as of December 31, 2019 by evaluating recent trading of the US K12 Courseware business and by considering business developments subsequent to the disposal.

/s/ PricewaterhouseCoopers LLP
London, United Kingdom
April 1, 2020

We have served as the Company's auditor since 1996.

Consolidated income statement

Year ended 31 December 2019

<u>All figures in £ millions</u>	<u>Notes</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Continuing operations				
Sales	2	3,869	4,129	4,513
Cost of goods sold	4	(1,858)	(1,943)	(2,066)
Gross profit		2,011	2,186	2,447
Operating expenses	4	(1,806)	(1,907)	(2,202)
Other net gains and losses	4	16	230	128
Share of results of joint ventures and associates	12	54	44	78
Operating profit	2	275	553	451
Finance costs	6	(84)	(91)	(110)
Finance income	6	41	36	80
Profit before tax		232	498	421
Income tax	7	34	92	(13)
Profit for the year		266	590	408
Attributable to:				
Equity holders of the company		264	588	406
Non-controlling interest		2	2	2
Earnings per share attributable to equity holders of the company during the year (expressed in pence per share)				
– basic	8	34.0p	75.6p	49.9p
– diluted	8	34.0p	75.5p	49.9p

Consolidated statement of comprehensive income

Year ended 31 December 2019

<u>All figures in £ millions</u>	<u>Notes</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Profit/(loss) for the year		266	590	408
Items that may be reclassified to the income statement				
Net exchange differences on translation of foreign operations –				
Group		(113)	91	(158)
Net exchange differences on translation of foreign operations –				
associates		(2)	(1)	(104)
Currency translation adjustment disposed		4	(4)	(51)
Attributable tax	7	5	(4)	9
Items that are not reclassified to the income statement				
Fair value gain on other financial assets		20	8	13
Attributable tax	7	(4)	—	(4)
Remeasurement of retirement benefit obligations – Group	25	(145)	22	175
Remeasurement of retirement benefit obligations – associates		(4)	3	7
Attributable tax	7	22	9	(42)
Other comprehensive income/(expense) for the year	29	(217)	124	(155)
Total comprehensive income for the year		49	714	253
Attributable to:				
Equity holders of the company		47	712	251
Non-controlling interest		2	2	2

Consolidated balance sheet

As at 31 December 2019

<u>All figures in £ millions</u>	<u>Notes</u>	<u>2019</u>	<u>2018</u>
Assets			
Non-current assets			
Property, plant and equipment	10	618	237
Intangible assets	11	2,900	3,009
Investments in joint ventures and associates	12	7	392
Deferred income tax assets	13	59	60
Financial assets – derivative financial instruments	16	29	67
Retirement benefit assets	25	429	571
Other financial assets	15	122	93
Trade and other receivables	22	313	100
		<u>4,477</u>	<u>4,529</u>
Current assets			
Intangible assets – pre-publication	20	870	817
Inventories	21	169	164
Trade and other receivables	22	1,275	1,178
Financial assets – derivative financial instruments	16	25	1
Cash and cash equivalents (excluding overdrafts)	17	437	568
		<u>2,776</u>	<u>2,728</u>
Assets classified as held for sale	32	397	648
Total assets		<u>7,650</u>	<u>7,905</u>
Liabilities			
Non-current liabilities			
Financial liabilities – borrowings	18	(1,572)	(674)
Financial liabilities – derivative financial instruments	16	(24)	(36)
Deferred income tax liabilities	13	(48)	(136)
Retirement benefit obligations	25	(92)	(100)
Provisions for other liabilities and charges	23	(13)	(145)
Other liabilities	24	(86)	(155)
		<u>(1,835)</u>	<u>(1,246)</u>

Consolidated balance sheet continued

As at 31 December 2019

<u>All figures in £ millions</u>	<u>Notes</u>	<u>2019</u>	<u>2018</u>
Current liabilities			
Trade and other liabilities	24	(1,278)	(1,400)
Financial liabilities – borrowings	18	(92)	(46)
Financial liabilities – derivative financial instruments	16	(15)	(23)
Current income tax liabilities		(55)	(72)
Provisions for other liabilities and charges	23	(52)	(20)
		(1,492)	(1,561)
Liabilities classified as held for sale	32	—	(573)
Total liabilities		(3,327)	(3,380)
Net assets		4,323	4,525
Equity			
Share capital	27	195	195
Share premium	27	2,614	2,607
Treasury shares	28	(24)	(33)
Capital redemption reserve		11	11
Fair value reserve		39	19
Translation reserve		567	678
Retained earnings		911	1,039
Total equity attributable to equity holders of the company		4,313	4,516
Non-controlling interest		10	9
Total equity		4,323	4,525

These financial statements have been approved for issue by the Board of Directors on April 1, 2020 and signed on its behalf by

Coram Williams
Chief Financial Officer

Consolidated statement of changes in equity
Year ended 31 December 2019

All figures In £ millions	Equity attributable to equity holders of the company								Non-controlling interest	Total equity
	Share capital	Share premium	Treasury shares	Capital redemption reserve	Fair value reserve	Translation reserve	Retained earnings	Total		
At 1 January 2019	195	2,607	(33)	11	19	678	1,039	4,516	9	4,525
Adjustment on initial application of IFRS 16 net of tax (see note 1b)	—	—	—	—	—	—	(83)	(83)	—	(83)
Adjustment on initial application of IFRIC 23 net of tax (see note 1c)	—	—	—	—	—	—	5	5	—	5
At 1 January 2019 (restated)	195	2,607	(33)	11	19	678	961	4,438	9	4,447
Profit for the year	—	—	—	—	—	—	264	264	2	266
Other comprehensive Income/ (expense)	—	—	—	—	20	(111)	(126)	(217)	—	(217)
Total comprehensive income/ (expense)	—	—	—	—	20	(111)	138	47	2	49
Equity-settled transactions	—	—	—	—	—	—	25	25	—	25
Tax on equity-settled transactions	—	—	—	—	—	—	(5)	(5)	—	(5)
Issue of ordinary shares under share option schemes	—	7	—	—	—	—	—	7	—	7
Buyback of equity	—	—	—	—	—	—	—	—	—	—
Purchase of treasury shares	—	—	(52)	—	—	—	—	(52)	—	(52)
Release of treasury shares	—	—	61	—	—	—	(61)	—	—	—
Transfer of gain on disposal of FVOCI investment	—	—	—	—	—	—	—	—	—	—
Dividends	—	—	—	—	—	—	(147)	(147)	(1)	(148)
At 31 December 2019	195	2,614	(24)	11	39	567	911	4,313	10	4,323

All figures in £ millions	Equity attributable to equity holders of the company								Non-controlling interest	Total equity
	Share capital	Share premium	Treasury shares	Capital redemption reserve	Fair value reserve	Translation reserve	Retained earnings	Total		
At 1 January 2018	200	2,602	(61)	5	13	592	544	3,895	8	3,903
Profit for the year	—	—	—	—	—	—	588	588	2	590
Other comprehensive income	—	—	—	—	8	86	30	124	—	124
Total comprehensive income	—	—	—	—	8	86	618	712	2	714
Equity-settled transactions	—	—	—	—	—	—	37	37	—	37
Tax on equity-settled transactions	—	—	—	—	—	—	4	4	—	4
Issue of ordinary shares under share option schemes	1	5	—	—	—	—	—	6	—	6
Buyback of equity	(6)	—	—	6	—	—	(2)	(2)	—	(2)
Purchase of treasury shares	—	—	—	—	—	—	—	—	—	—
Release of treasury shares	—	—	28	—	—	—	(28)	—	—	—
Transfer of gain on disposal of FVOCI investment	—	—	—	—	(2)	—	2	—	—	—
Dividends	—	—	—	—	—	—	(136)	(136)	(1)	(137)
At 31 December 2018	195	2,607	(33)	11	19	678	1,039	4,516	9	4,525

Consolidated statement of changes in equity continued

Year ended 31 December 2019

All figures in £ millions	Equity attributable to equity holders of the company							Non-controlling interest	Total equity	
	Share capital	Share premium	Treasury shares	Capital redemption reserve	Fair value reserve	Translation reserve	Retained earnings			
At 1 January 2017	205	2,597	(79)	—	—	905	716	4,344	4	4,348
Loss for the year	—	—	—	—	—	—	406	406	2	408
Other comprehensive income/ (expense)	—	—	—	—	13	(313)	145	(155)	—	(155)
Total comprehensive income/(expense)	—	—	—	—	13	(313)	551	251	2	253
Equity-settled transactions	—	—	—	—	—	—	33	33	—	33
Issue of ordinary shares under share option schemes	—	5	—	—	—	—	—	5	—	5
Buyback of equity	(5)	—	—	5	—	—	(300)	(300)	—	(300)
Release of treasury shares	—	—	18	—	—	—	(18)	—	—	—
Transfer of gain on disposal of FVOCI investment	—	—	—	—	—	—	—	—	—	—
Changes in non-controlling interest	—	—	—	—	—	—	(2)	(2)	2	—
Dividends	—	—	—	—	—	—	(318)	(318)	—	(318)
At 31 December 2017	<u>200</u>	<u>2,602</u>	<u>(61)</u>	<u>5</u>	<u>13</u>	<u>592</u>	<u>662</u>	<u>4,013</u>	<u>8</u>	<u>4,021</u>

The capital redemption reserve reflects the nominal value of shares cancelled in the Group's share buyback programme. The fair value reserve arises on revaluation of other financial assets. The translation reserve includes exchange differences arising from the translation of the net investment in foreign operations and of borrowings and other currency instruments designated as hedges of such investments.

Consolidated cash flow statement

Year ended 31 December 2019

<u>All figures in £ millions</u>	<u>Notes</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Cash flows from operating activities				
Net cash generated from operations	33	480	547	462
Interest paid		(81)	(42)	(89)
Tax paid		(30)	(43)	(75)
Net cash generated from operating activities		369	462	298
Cash flows from investing activities				
Acquisition of subsidiaries, net of cash acquired	30	(45)	(5)	(11)
Additional capital invested in associates		(40)	—	—
Purchase of investments		(12)	(10)	(3)
Purchase of property, plant and equipment		(55)	(70)	(82)
Purchase of intangible assets		(138)	(130)	(150)
Disposal of subsidiaries, net of cash disposed	31	(101)	83	19
Proceeds from sale of associates	31	—	18	411
Proceeds from sale of investments		5	6	—
Proceeds from sale of property, plant and equipment	33	1	128	—
Proceeds from sale of liquid resources		—	10	20
Lease receivables repaid		26	—	—
Loans repaid by/(advance to) related parties		(49)	46	(13)
Investment in liquid resources		—	(2)	(18)
Interest received		17	20	20
Investment income		2	—	—
Dividends received from joint ventures and associates		64	117	458
Net cash generated from/(used in) investing activities		(325)	211	651
Cash flows from financing activities				
Proceeds from issue of ordinary shares	27	7	6	5
Buyback of equity	27	—	(153)	(149)
Purchase of treasury shares		(52)	—	—
Proceeds from borrowings		230	—	2
Repayment of borrowings		(48)	(441)	(1,294)
Repayment of lease liabilities		(91)	(4)	(5)
Dividends paid to company's shareholders	9	(147)	(136)	(318)
Dividends paid to non-controlling interest		(1)	(1)	—
Net cash used in financing activities		(102)	(729)	(1,759)
Effects of exchange rate changes on cash and cash equivalents		(33)	(49)	16
Net decrease in cash and cash equivalents		(91)	(105)	(794)
Cash and cash equivalents at beginning of year		525	630	1,424
Cash and cash equivalents at end of year	17	434	525	630

Notes to the consolidated financial statements

General information

Pearson plc (the company), its subsidiaries and associates (together the Group) are international businesses covering educational courseware, assessments and services, and consumer publishing through its associate interest in Penguin Random House.

The company is a public limited company incorporated and domiciled in England. The address of its registered office is 80 Strand, London WC2R 0RL.

The company has its primary listing on the London Stock Exchange and is also listed on the New York Stock Exchange.

These consolidated financial statements were approved for issue by the Board of Directors on 6 March 2020.

1a. Accounting policies

The principal accounting policies applied in the preparation of these consolidated financial statements are set out below.

Basis of preparation

These consolidated financial statements have been prepared on the going concern basis and in accordance with International Financial Reporting Standards (IFRS) and IFRS Interpretations Committee (IFRS IC) interpretations as adopted by the European Union (EU) and with those parts of the Companies Act 2006 applicable to companies reporting under IFRS. In respect of the accounting standards applicable to the Group; there is no difference between EU-adopted and IASB-adopted IFRS.

These consolidated financial statements have been prepared under the historical cost convention as modified by the revaluation of financial assets and liabilities (including derivative financial instruments) at fair value.

These accounting policies have been consistently applied to all years presented, unless otherwise stated.

1. Interpretations and amendments to published standards effective 2019 – The following standards were adopted in 2019:

- IFRS 16 Leases
- IFRIC 23 Uncertainty over Income Tax Treatments
- IFRS 9 and IFRS 7 Amendments

The impact of the adoption of these new standards is set out in notes 1b, 1c and 1d.

A number of other new pronouncements are also effective from 1 January 2019 but they do not have a material impact on the consolidated financial statements. Additional disclosure has been given where relevant.

2. Standards, interpretations and amendments to published standards that are not yet effective – A number of other new standards and amendments to standards and interpretations are effective for annual periods beginning after 1 January 2020, and have not been applied in preparing these financial statements. None of these is expected to have a material impact on the consolidated financial statements.

Notes to the consolidated financial statements

1a. Accounting policies continued

Basis of preparation continued

3. *Critical accounting assumptions and judgements* – The preparation of financial statements in conformity with IFRS requires the use of certain critical accounting assumptions. It also requires management to exercise its judgement in the process of applying the Group's accounting policies.

The areas requiring a higher degree of judgement or complexity, or areas where assumptions and estimates are significant to the consolidated financial statements, are discussed in the relevant accounting policies under the following headings and in the notes to the accounts where appropriate:

Intangible assets: Goodwill

Intangible assets: Pre-publication assets

Taxation

Revenue: Provisions for returns

Employee benefits: Pensions

In addition, certain assumptions have been used and judgements exercised in the valuation of the other receivable which arose on the disposal of the US K12 Courseware business (see note 14).

Consolidation

1. *Business combinations* – The acquisition method of accounting is used to account for business combinations.

The consideration transferred for the acquisition of a subsidiary is the fair value of the assets transferred, the liabilities incurred and the equity interest issued by the Group. The consideration transferred includes the fair value of any asset or liability resulting from a contingent consideration arrangement. Acquisition-related costs are expensed as incurred in the operating expenses line of the income statement. Identifiable assets acquired and identifiable liabilities and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date. The determination of fair values often requires significant judgements and the use of estimates, and, for material acquisitions, the fair value of the acquired intangible assets is determined by an independent valuer. The excess of the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition date fair value of any previous equity interest in the acquiree over the fair value of the identifiable net assets acquired is recorded as goodwill (see note 30).

See the 'Intangible assets' policy for the accounting policy on goodwill. If this is less than the fair value of the net assets of the subsidiary acquired, in the case of a bargain purchase, the difference is recognised directly in the income statement.

On an acquisition-by-acquisition basis, the Group recognises any non-controlling interest in the acquiree either at fair value or at the non-controlling interest's proportionate share of the acquiree's net assets.

IFRS 3 'Business Combinations' has not been applied retrospectively to business combinations before the date of transition to IFRS.

Management exercises judgement in determining the classification of its investments in its businesses, in line with the following:

2. *Subsidiaries* – Subsidiaries are entities over which the Group has control. The Group controls an entity when the Group is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. Subsidiaries are fully consolidated from the date on which control is transferred to the Group. They are deconsolidated from the date that control ceases.

Notes to the consolidated financial statements

1a. Accounting policies continued

Consolidation continued

3. *Transactions with non-controlling interests* – Transactions with non-controlling interests that do not result in loss of control are accounted for as equity transactions, that is, as transactions with the owners in their capacity as owners. Any surplus or deficit arising from disposals to a non-controlling interest is recorded in equity. For purchases from a non-controlling interest, the difference between consideration paid and the relevant share acquired of the carrying value of the subsidiary is recorded in equity.

4. *Joint ventures and associates* – Joint ventures are entities in which the Group holds an interest on a long-term basis and has rights to the net assets through contractually agreed sharing of control. Associates are entities over which the Group has significant influence but not the power to control the financial and operating policies, generally accompanying a shareholding of between 20% and 50% of the voting rights. Ownership percentage is likely to be the key indicator of investment classification; however, other factors, such as Board representation, may also affect the accounting classification. Judgement is required to assess all of the qualitative and quantitative factors which may indicate that the Group does, or does not, have significant influence over an investment. Penguin Random House is the Group's only material associate – see note 12 for further details on the judgements involved in its accounting classification. Investments in joint ventures and associates are accounted for by the equity method and are initially recognised at the fair value of consideration transferred.

The Group's share of its joint ventures' and associates' post-acquisition profits or losses is recognised in the income statement and its share of post-acquisition movements in reserves is recognised in reserves.

The Group's share of its joint ventures' and associates' results is recognised as a component of operating profit as these operations form part of the core publishing business of the Group and are an integral part of existing wholly-owned businesses. The cumulative post-acquisition movements are adjusted against the carrying amount of the investment. When the Group's share of losses in a joint venture or associate equals or exceeds its interest in the joint venture or associate, the Group does not recognise further losses unless the Group has incurred obligations or made payments on behalf of the joint venture or associate.

Unrealised gains and losses on transactions between the Group and its joint ventures and associates are eliminated to the extent of the Group's interest in these entities.

5. *Contribution of a subsidiary to an associate or joint venture* – The gain or loss resulting from the contribution or sale of a subsidiary to an associate or a joint venture is recognised in full. Where such transactions do not involve cash consideration, significant judgements and estimates are used in determining the fair values of the consideration received.

Foreign currency translation

1. *Functional and presentation currency* – Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the entity operates (the functional currency). The consolidated financial statements are presented in sterling, which is the company's functional and presentation currency.

2. *Transactions and balances* – Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the income statement, except when deferred in equity as qualifying net investment hedges.

Notes to the consolidated financial statements

1a. Accounting policies continued

Foreign currency translation continued

3. *Group companies* – The results and financial position of all Group companies that have a functional currency different from the presentation currency are translated into the presentation currency as follows:

- i) Assets and liabilities are translated at the closing rate at the date of the balance sheet
- ii) Income and expenses are translated at average exchange rates
- iii) All resulting exchange differences are recognised as a separate component of equity.

On consolidation, exchange differences arising from the translation of the net investment in foreign entities, and of borrowings and other currency instruments designated as hedges of such investments, are taken to shareholders' equity. The Group treats specific inter-company loan balances, which are not intended to be repaid in the foreseeable future, as part of its net investment. When a foreign operation is sold, such exchange differences are recognised in the income statement as part of the gain or loss on sale.

The principal overseas currency for the Group is the US dollar. The average rate for the year against sterling was \$1.28 (2018: \$1.34) and the year-end rate was \$1.32 (2018: \$1.27).

Property, plant and equipment

Property, plant and equipment are stated at historical cost less depreciation. Cost includes the original purchase price of the asset and the costs attributable to bringing the asset to its working condition for intended use. Land is not depreciated. Depreciation on other assets is calculated using the straight-line method to allocate their cost less their residual values over their estimated useful lives as follows:

Buildings (freehold):	20 – 50 years
Buildings (leasehold):	over the period of the lease
Plant and equipment:	3 – 10 years

The assets' residual values and useful lives are reviewed, and adjusted if appropriate, at each balance sheet date.

The carrying value of an asset is written down to its recoverable amount if the carrying value of the asset is greater than its estimated recoverable amount.

Intangible assets

1. *Goodwill* – For the acquisition of subsidiaries made on or after 1 January 2010, goodwill represents the excess of the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition date fair value of any previous equity interest in the acquiree over the fair value of the identifiable net assets acquired. For the acquisition of subsidiaries made from the date of transition to IFRS to 31 December 2009, goodwill represents the excess of the cost of an acquisition over the fair value of the Group's share of the net identifiable assets acquired. Goodwill on acquisitions of subsidiaries is included in intangible assets. Goodwill on acquisition of associates and joint ventures represents the excess of the cost of an acquisition over the fair value of the Group's share of the net identifiable assets acquired. Goodwill on acquisitions of associates and joint ventures is included in investments in associates and joint ventures.

Goodwill is tested at least annually for impairment and carried at cost less accumulated impairment losses. An impairment loss is recognised to the extent that the carrying value of goodwill exceeds the recoverable amount. The recoverable amount is the higher of fair value less costs of disposal and value in use. These calculations

Notes to the consolidated financial statements

1a. Accounting policies continued

Intangible assets continued

require the use of estimates in respect of forecast cash flows and discount rates and significant management judgement in respect of CGU and cost allocation; impairment is a key source of estimation uncertainty and has a significant risk of resulting in a material adjustment to the carrying amount of relevant assets within the next financial year. A summary of these assets by CGU and a description of the key assumptions and sensitivities is included in note 11.

Goodwill is allocated to aggregated cash-generating units for the purpose of impairment testing. The allocation is made to those aggregated cash-generating units that are expected to benefit from the business combination in which the goodwill arose.

Gains and losses on the disposal of an entity include the carrying amount of goodwill relating to the entity sold.

2. *Acquired software* – Software separately acquired for internal use is capitalised at cost. Software acquired in material business combinations is capitalised at its fair value as determined by an independent valuer. Acquired software is amortised on a straight-line basis over its estimated useful life of between three and eight years.

3. *Internally developed software* – Internal and external costs incurred during the preliminary stage of developing computer software for internal use are expensed as incurred. Internal and external costs incurred to develop computer software for internal use during the application development stage are capitalised if the Group expects economic benefits from the development. Capitalisation in the application development stage begins once the Group can reliably measure the expenditure attributable to the software development and has demonstrated its intention to complete and use the software. Internally developed software is amortised on a straight-line basis over its estimated useful life of between three and ten years.

4. *Acquired intangible assets* – Acquired intangible assets include customer lists, contracts and relationships, trademarks and brands, publishing rights, content, technology and software rights. These assets are capitalised on acquisition at cost and included in intangible assets. Intangible assets acquired in material business combinations are capitalised at their fair value as determined by an independent valuer. Intangible assets are amortised over their estimated useful lives of between two and 20 years, using an amortisation method that reflects the pattern of their consumption.

5. *Pre-publication assets* – Pre-publication assets represent direct costs incurred in the development of educational programmes and titles prior to their publication. These costs are recognised as current intangible assets where the title will generate probable future economic benefits and costs can be measured reliably.

Pre-publication assets relating to content are amortised upon publication of the title over estimated economic lives of five years or less, being an estimate of the expected operating lifecycle of the title, with a higher proportion of the amortisation taken in the earlier years. Pre-publication assets relating to product platforms are amortised over ten years or less being an estimate of the expected useful life.

The assessment of the useful economic life and the recoverability of pre-publication assets involves a significant degree of judgement based on historical trends and management estimation of future potential sales. An incorrect amortisation profile could result in excess amounts being carried forward as intangible assets that would otherwise have been written off to the income statement in an earlier period.

Reviews are performed regularly to estimate recoverability of pre-publication assets. The carrying amount of pre-publication assets is set out in note 20.

Notes to the consolidated financial statements

1a. Accounting policies continued

Intangible assets continued

The investment in pre-publication assets has been disclosed as part of cash generated from operations in the cash flow statement (see note 33).

Other financial assets

Other financial assets are non-derivative financial assets classified and measured at estimated fair value.

Marketable securities and cash deposits with maturities of greater than three months are classified and subsequently measured at fair value through profit and loss.

They are remeasured at each balance sheet date by using market data and the use of established valuation techniques. Any movement in the fair value is immediately recognised in finance income or finance costs in the income statement.

Investments in the equity instruments of other entities are classified and subsequently measured at fair value through other comprehensive income. Changes in fair value are recorded in equity in the fair value reserve via other comprehensive income. On subsequent disposal of the asset, the net fair value gains or losses are reclassified from the fair value reserve to retained earnings. Any dividends received from equity investments classified as fair value through other comprehensive income are recognised in the income statement unless they represent a return of capital.

Inventories

Inventories are stated at the lower of cost and net realisable value. Cost is determined using the weighted average method or an approximation thereof, such as the first in first out (FIFO) method. The cost of finished goods and work in progress comprises raw materials, direct labour, other direct costs and related production overheads. Net realisable value is the estimated selling price in the ordinary course of business, less estimated costs necessary to make the sale. Provisions are made for slow-moving and obsolete stock.

Royalty advances

Advances of royalties to authors are included within trade and other receivables when the advance is paid less any provision required to adjust the advance to its net realisable value. The realisable value of royalty advances relies on a degree of management estimation in determining the profitability of individual author contracts. If the estimated realisable value of author contracts is overstated, this will have an adverse effect on operating profits as these excess amounts will be written off.

The recoverability of royalty advances is based upon an annual detailed management review of the age of the advance, the future sales projections for new authors and prior sales history of repeat authors.

The royalty advance is expensed at the contracted or effective royalty rate as the related revenues are earned. Royalty advances which will be consumed within one year are held in current assets. Royalty advances which will be consumed after one year are held in non-current assets.

Cash and cash equivalents

Cash and cash equivalents in the cash flow statement include cash in hand, deposits held on call with banks, other short-term highly liquid investments with original maturities of three months or less, and bank overdrafts. Bank overdrafts are included in borrowings in current liabilities in the balance sheet.

Notes to the consolidated financial statements

1a. Accounting policies continued

Cash and cash equivalents continued

Short-term deposits and marketable securities with maturities of greater than three months do not qualify as cash and cash equivalents and are reported as financial assets. Movements on these financial assets are classified as cash flows from financing activities in the cash flow statement where these amounts are used to offset the borrowings of the Group or as cash flows from investing activities where these amounts are held to generate an investment return.

Share capital

Ordinary shares are classified as equity.

Incremental costs directly attributable to the issue of new shares or options are shown in equity as a deduction, net of tax, from the proceeds.

Where any Group company purchases the company's equity share capital (treasury shares), the consideration paid, including any directly attributable incremental costs, net of income taxes, is deducted from equity attributable to the company's equity holders until the shares are cancelled, reissued or disposed of. Where such shares are subsequently sold or reissued, any consideration received, net of any directly attributable transaction costs and the related income tax effects, is included in equity attributable to the company's equity holders.

Ordinary shares purchased under a buyback programme are cancelled and the nominal value of the shares is transferred to a capital redemption reserve.

Borrowings

Borrowings are recognised initially at fair value, which is proceeds received net of transaction costs incurred. Borrowings are subsequently stated at amortised cost with any difference between the proceeds (net of transaction costs) and the redemption value being recognised in the income statement over the period of the borrowings using the effective interest method. Accrued interest is included as part of borrowings.

Where a debt instrument is in a fair value hedging relationship, an adjustment is made to its carrying value in the income statement to reflect the hedged risk.

Where a debt instrument is in a net investment hedge relationship gains and losses on the effective portion of the hedge are recognised in other comprehensive income.

Derivative financial instruments

Derivatives are recognised at fair value and remeasured at each balance sheet date. The fair value of derivatives is determined by using market data and the use of established estimation techniques such as discounted cash flow and option valuation models.

For derivatives in a hedge relationship, the currency basis spread is excluded from the designation as a hedging instrument.

Changes in the fair value of derivatives are recognised immediately in finance income or costs. However, derivatives relating to borrowings and certain foreign exchange contracts are designated as part of a hedging transaction.

Notes to the consolidated financial statements

1a. Accounting policies continued

Derivative financial instruments continued

The accounting treatment is summarised as follows:

<u>Typical reason for designation</u>	<u>Reporting of gains and losses on effective portion of the hedge</u>	<u>Reporting of gains and losses on disposal</u>
Net investment hedge		
The derivative creates a foreign currency liability which is used to hedge changes in the value of a subsidiary which transacts in that currency.	Recognised in other comprehensive income.	On disposal, the accumulated value of gains and losses reported in other comprehensive income is transferred to the income statement.
Fair value hedges		
The derivative transforms the interest profile on debt from fixed rate to floating rate. Changes in the value of the debt as a result of changes in interest rates and foreign exchange rates are offset by equal and opposite changes in the value of the derivative. When the Group's debt is swapped to floating rates, the contracts used are designated as fair value hedges.	Gains and losses on the derivative are reported in finance income or finance costs. However, an equal and opposite change is made to the carrying value of the debt (a 'fair value adjustment') with the benefit/cost reported in finance income or finance costs. The net result should be a zero charge on a perfectly effective hedge.	If the debt and derivative are disposed of, the value of the derivative and the debt (including the fair value adjustment) are reset to zero. Any resultant gain or loss is recognised in finance income or finance costs.
Non-hedge accounted contracts		
These are not designated as hedging instruments. Typically these are short-term contracts to convert debt back to fixed rates or foreign exchange contracts where a natural offset exists.	No hedge accounting applies.	

Policy applicable from 1 January 2018: IFRS 9

The Group adopted IFRS 9 'Financial Instruments' at 1 January 2018 and applied the new rules in accordance with the transitional provisions. Comparatives for 2017 have not been restated. The Group assessed the impact of adopting IFRS 9 and the only material adjustment was a £13m increase in the provision for losses against trade debtors which was reflected as an adjustment to retained earnings at 1 January 2018. The adjustment arises from adoption of the expected credit loss model for impairments under IFRS 9. Although there is a transition impact from adoption of the new model there was no material impact on profit before tax for 2018. Also under IFRS 9, the Group's equity financial investments continue to be recognised at fair value and the Group has elected to take the option to recognise all movements in fair value in other comprehensive income (FVOCI). Gains or losses realised on the subsequent sale of these financial assets (FVOCI investments) are no longer recycled through the profit and loss account, but are instead reclassified from the FVOCI reserve to retained earnings. IFRS 9 also introduced a new, simpler hedge accounting model with a principles-based approach designed to align the accounting result with the economic hedging strategy. The Group has confirmed that its previous hedge relationships continue to qualify as hedges under IFRS 9 in 2018.

Notes to the consolidated financial statements

1a. Accounting policies continued

Taxation

Current tax is recognised at the amounts expected to be paid or recovered under the tax rates and laws that have been enacted or substantively enacted at the balance sheet date.

Deferred income tax is provided, using the balance sheet liability method, on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts. Deferred income tax is determined using tax rates and laws that have been enacted or substantively enacted by the balance sheet date and are expected to apply when the related deferred tax asset is realised or the deferred income tax liability is settled.

Deferred tax assets are recognised to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilised.

Deferred income tax is provided in respect of the undistributed earnings of subsidiaries, associates and joint ventures other than where it is intended that those undistributed earnings will not be remitted in the foreseeable future.

Current and deferred tax are recognised in the income statement, except when the tax relates to items charged or credited directly to equity or other comprehensive income, in which case the tax is also recognised in equity or other comprehensive income.

The Group is subject to income taxes in numerous jurisdictions. Significant judgement is required in determining the estimates in relation to the worldwide provision for income taxes. There are many transactions and calculations for which the ultimate tax determination is uncertain during the ordinary course of business. The Group recognises tax provisions when it is considered probable that there will be a future outflow of funds to a tax authority. The provisions are based on management's best judgement of the application of tax legislation and best estimates of future settlement amounts (see note 7). Where the final tax outcome of these matters is different from the amounts that were initially recorded, such differences will impact the income tax and deferred tax provisions in the period in which such determination is made.

Deferred tax assets and liabilities require management judgement and estimation in determining the amounts to be recognised. In particular, when assessing the extent to which deferred tax assets should be recognised, significant judgement is used when considering the timing of the recognition and estimation is used to determine the level of future taxable income together with any future tax planning strategies (see note 13).

Employee benefits

1. Pensions – The retirement benefit asset and obligation recognised in the balance sheet represent the net of the present value of the defined benefit obligation and the fair value of plan assets at the balance sheet date. The defined benefit obligation is calculated annually by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting estimated future cash flows using yields on high-quality corporate bonds which have terms to maturity approximating the terms of the related liability.

When the calculation results in a potential asset, the recognition of that asset is limited to the asset ceiling – that is the present value of any economic benefits available in the form of refunds from the plan or a reduction in future contributions. Management uses judgement to determine the level of refunds available from the plan in recognising an asset.

Notes to the consolidated financial statements

1a. Accounting policies continued

Employee benefits continued

The determination of the pension cost and defined benefit obligation of the Group's defined benefit pension schemes depends on the selection of certain assumptions, which include the discount rate, inflation rate, salary growth and longevity (see note 25).

Actuarial gains and losses arising from experience adjustments and changes in actuarial assumptions are charged or credited to equity in other comprehensive income in the period in which they arise.

The service cost, representing benefits accruing over the year, is included in the income statement as an operating cost. Net interest is calculated by applying the discount rate to the net defined benefit obligation and is presented as finance costs or finance income.

Obligations for contributions to defined contribution pension plans are recognised as an operating expense in the income statement as incurred.

2. *Other post-retirement obligations* – The expected costs of post-retirement medical and life assurance benefits are accrued over the period of employment, using a similar accounting methodology as for defined benefit pension obligations. The liabilities and costs relating to significant other post-retirement obligations are assessed annually by independent qualified actuaries.

3. *Share-based payments* – The fair value of options or shares granted under the Group's share and option plans is recognised as an employee expense after taking into account the Group's best estimate of the number of awards expected to vest. Fair value is measured at the date of grant and is spread over the vesting period of the option or share. The fair value of the options granted is measured using an option model that is most appropriate to the award. The fair value of shares awarded is measured using the share price at the date of grant unless another method is more appropriate. Any proceeds received are credited to share capital and share premium when the options are exercised.

Provisions

Provisions are recognised if the Group has a present legal or constructive obligation as a result of past events, it is more likely than not that an outflow of resources will be required to settle the obligation and the amount can be reliably estimated. Provisions are discounted to present value where the effect is material.

Prior to 1 January 2019 the Group recognised a provision for onerous lease contracts when the expected benefits to be derived from a contract were less than the unavoidable costs of meeting the obligations under the contract. The calculation of onerous lease provisions involved estimates of potential sublet income, lease terms including rent free periods, void periods, lease incentives and running costs. On the initial application of IFRS 16 on 1 January 2019, onerous lease provisions have been offset against the relevant right-of-use asset (see note 23).

The provision was based on the present value of future payments for surplus leased properties under non-cancellable operating leases, net of estimated sub-leasing income.

Revenue recognition

The Group's revenue streams are courseware, assessments and services. Courseware includes curriculum materials provided in book form and/or via access to digital content. Assessments includes test development, processing and scoring services provided to governments, educational institutions, corporations and professional bodies. Services includes the operation of schools, colleges and universities, including sistemas in Brazil, as well as the provision of online learning services in partnership with universities and other academic institutions.

Revenue is recognised in order to depict the transfer of control of promised goods and services to customers in an amount that reflects the consideration to which we expect to be entitled in exchange for those goods and services.

Notes to the consolidated financial statements

1a. Accounting policies continued

Revenue recognition continued

This process begins with the identification of our contract with a customer, which is generally through a master services agreement, customer purchase order, or a combination thereof. Within each contract, judgement is applied to determine the extent to which activities within the contract represent distinct performance obligations to be delivered and the total amount of transaction price to which we expect to be entitled.

The transaction price determined is net of sales taxes, rebates and discounts, and after eliminating sales within the Group. Where a contract contains multiple performance obligations such as the provision of supplementary materials or online access with textbooks, revenue is allocated on the basis of relative standalone selling prices. Where a contract contains variable consideration significant estimation is required to determine the amount to which the Group is expected to be entitled.

Revenue is recognised on contracts with customers when or as performance obligations are satisfied which is the period or the point in time where control of goods or services transfers to the customer. Judgement is applied to determine first whether control passes over time and if not, then the point in time at which control passes. Where revenue is recognised over time judgement is used to determine the method which best depicts the transfer of control. Where an input method is used significant estimation is required to determine the progress towards delivering the performance obligation.

Revenue from the sale of books is recognised net of a provision for anticipated returns. This provision is based primarily on historical return rates, customer buying patterns and retailer behaviours including stock levels (see note 22). If these estimates do not reflect actual returns in future periods then revenues could be understated or overstated for a particular period. When the provision for returns is remeasured at each reporting date to reflect changes in estimates, a corresponding adjustment is also recorded to revenue.

The Group may enter into contracts with another party in addition to our customer. In making the determination as to whether revenue should be recognised on a gross or net basis, the contract with the customer is analysed to understand which party controls the relevant good or service prior to transferring to the customer. This judgement is informed by facts and circumstances of the contract in determining whether the Group has promised to provide the specified good or service or whether the Group is arranging for the transfer of the specified good or service, including which party is responsible for fulfilment, has discretion to set the price to the customer and is responsible for inventory risk. On certain contracts, where the Group acts as an agent, only commissions and fees receivable for services rendered are recognised as revenue. Any third party costs incurred on behalf of the principal that are rechargeable under the contractual arrangement are not included in revenue.

Income from recharges of freight and other activities which are incidental to the normal revenue-generating activities is included in other income.

Additional details on the Group's revenue streams are also included in note 3.

Policy applicable from 1 January 2018: IFRS 15

The Group adopted IFRS 15 'Revenue from Contracts with Customers' at 1 January 2018 and applied the modified retrospective approach. Comparatives for 2017 have not been restated and continued to be reported under IAS 18 and IAS 11. The cumulative impact of adoption has been recognised as a £108m decrease to retained earnings with a corresponding decrease in net assets at 1 January 2018. The changes were impacted by four areas: unexercised customer rights (breakage), Online Program Management (OPM) marketing, administration fees, and commissions costs. Additionally, the provision for sales returns, which was previously netted off in trade receivables, from 1 January 2018 is now shown in two parts: as a separate sales return liability

Notes to the consolidated financial statements

1a. Accounting policies continued

Revenue recognition continued

within trade and other liabilities, and an inventory returns asset within inventory. The adoption of IFRS 15 increased 2018 sales and profit by £9m and £7m, respectively. Had the Group been applying IFRS 15 during 2017, it is estimated that both sales and profit before tax would have been £2m higher for the full year, with the balance sheet impact at the beginning and end of the year being similar.

Leases

Policy applicable from 1 January 2019

The Group as a lessee

The Group assesses whether a contract is or contains a lease at the inception of the contract. A contract is, or contains a lease, if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration. The Group recognises a right-of-use asset and a lease liability at the lease commencement date with respect to all lease arrangements except for short-term leases (leases with a lease term of 12 months or less) and leases of low value assets. For these leases, the lease payments are recognised as an operating expense on a straight-line basis over the term of the lease.

The right-of-use asset is initially measured at cost, comprising the initial amount of the lease liability plus any initial direct costs incurred and an estimate of costs to restore the underlying asset, less any lease incentives received. The right-of-use asset is subsequently depreciated using the straight-line method from the commencement date to the earlier of the end of the useful life of the asset or the end of the lease term. The Group applies IAS 36 to determine whether a right-of-use asset is impaired. The lease liability is initially measured at the present value of the lease payments that are not paid at the commencement date, discounted using the interest rate implicit in the lease or, if that rate cannot be readily determined, the incremental borrowing rate. The lease liability is measured at amortised cost using the effective interest method. It is remeasured when there is a change in future lease payments arising from a change in an index or a rate or a change in the Group's assessment of whether it will exercise an extension or termination option. When the lease liability is remeasured, a corresponding adjustment is made to the right-of-use asset.

Management uses judgement to determine the lease term where extension and termination options are available within the lease.

The Group as a lessor:

When the Group is an intermediate lessor, the head lease and sub-lease are accounted for as two separate contracts. The head lease is accounted for as per the lessee policy above. The sub-lease is classified as a finance lease or operating lease by reference to the right-of-use asset arising from the head lease. Where the lease transfers substantially all the risks and rewards of ownership to the lessee the contract is classified as a finance lease; all other leases are classified as operating leases. Rental income from operating leases is recognised on a straight-line basis over the term of the relevant lease. Amounts due from lessees under finance sub-leases are recognised as receivables at the amount of the Group's net investment in the leases discounted using the interest rate implicit in the lease or, if that rate cannot be readily determined, the discount rate used in the head lease.

Policy applicable before 1 January 2019

Leases of property, plant and equipment where the Group has substantially all the risks and rewards of ownership are classified as finance leases. Finance leases are capitalised at the commencement of the lease at the lower of the fair value of the leased property and the present value of the minimum lease payments. Each lease payment is allocated between the liability and finance charges to achieve a constant rate on the finance balance outstanding. The corresponding rental obligations, net of finance charges, are included in financial liabilities – borrowings.

Notes to the consolidated financial statements

1a. Accounting policies continued

Leases continued

The interest element of the finance cost is charged to the income statement over the lease period to produce a constant periodic rate of interest on the remaining balance of the liability for each period. The property, plant and equipment acquired under finance leases are depreciated over the shorter of the useful life of the asset or the lease term.

Leases where a significant portion of the risks and rewards of ownership are retained by the lessor are classified as operating leases by the lessee. Payments made under operating leases (net of any incentives received from the lessor) are charged to the income statement on a straight-line basis over the period of the lease.

Dividends

Final dividends are recorded in the Group's financial statements in the period in which they are approved by the company's shareholders. Interim dividends are recorded when paid.

Discontinued operations

A discontinued operation is a component of the Group's business that represents a separate major line of business or geographical area of operations that has been disposed of or meets the criteria to be classified as held for sale.

Discontinued operations are presented in the income statement as a separate line and are shown net of tax.

Assets and liabilities held for sale

Assets and liabilities are classified as held for sale and stated at the lower of carrying amount and fair value less costs to sell if it is highly probable that the carrying amount will be recovered principally through a sale transaction rather than through continuing use. No depreciation is charged in respect of non-current assets classified as held for sale. Amounts relating to non-current assets and liabilities held for sale are classified as discontinued operations in the income statement where appropriate.

Trade receivables

Trade receivables are stated at fair value after provision for bad and doubtful debts. Provisions for bad and doubtful debts are based on the expected credit loss model. The 'simplified approach' is used with the expected loss allowance measured at an amount equal to the lifetime expected credit losses. Trade receivables are also stated after provision for anticipated future sales returns (also see Revenue recognition policy).

Notes to the consolidated financial statements

1b. Change of accounting policy: IFRS 16

The Group has adopted IFRS 16 ‘Leases’ at 1 January 2019 and applied the modified retrospective approach. Comparatives for 2018 have not been restated and the cumulative impact of adoption has been recognised as a decrease to net assets with a corresponding decrease in retained earnings at 1 January 2019 as follows:

<u>All figures in £ millions</u>	<u>2019</u> <u>1 January</u>
Non-current assets	
Property, plant and equipment (right-of-use assets)	424
Investment in joint ventures and associates	(2)
Deferred income tax assets	1
Trade and other receivables	185
Current assets	
Trade and other receivables	7
Non-current liabilities	
Financial liabilities – borrowings	(792)
Deferred income tax liabilities	14
Provisions for other liabilities and charges	101
Other liabilities	58
Current liabilities	
Financial liabilities – borrowings	(89)
Trade and other liabilities	10
Total decrease in retained earnings at 1 January 2019	<u><u>(83)</u></u>

The Group’s lease portfolio consists of approximately 750 property leases together with a number of vehicle and equipment leases. The lease liability has been measured at the present value of the remaining lease payments, discounted using the incremental borrowing rate at transition. The right-of-use asset has been measured at the carrying amount as if the standard had been applied since the commencement of the lease, discounted using the incremental borrowing rate at transition. Where data was not available to enable this measurement to be made, the right-of-use asset has been measured at an amount equal to the lease liability.

On transition the Group elected not to reassess whether a contract is, or contains, a lease, instead relying on the assessment already made applying IAS 17 ‘Leases’ and IFRIC 4 ‘Determining whether an Arrangement contains a Lease’. In addition, the Group applied the available practical expedients as follows:

- Relied on its assessment of whether leases are onerous immediately prior to the date of initial application.
- Applied the short-term leases exemptions to leases with lease term ending within 12 months at the date of the initial application.
- Excluded the initial direct costs from the measurement of the right-to-use asset at the date of the initial application.
- Used hindsight in determining the lease term where the contract contains options to extend or terminate the lease.

Adoption of the new standard has a material impact on the Group. The lease liability brought onto the balance sheet at transition was £881m with the corresponding right-of-use asset valued at £424m. In addition, certain subleases have been reclassified as finance leases resulting in an additional lease receivable of £215m being brought on balance sheet. The net impact on the balance sheet is a reduction of net assets of £83m after taking into account existing liabilities relating to onerous lease provisions, lease incentives, prepayments, adjustments to tax and the net impact on associates. There were no leases relating to held for sale assets at 1 January 2019.

Notes to the consolidated financial statements

1b. Change of accounting policy: IFRS 16 continued

For leases previously classified as finance leases under IAS 17 'Leases', the carrying amount of the right-of-use asset and the lease liability at 1 January 2019 are determined at the carrying amount of the lease asset and lease liability under IAS 17 immediately before that date.

The impact on the income statement for 2019 was to reduce profit before tax by £9m (increasing both adjusted and statutory operating profit by £25m and increasing net finance costs by £34m). The operating lease expense recognised under the previous accounting standards is now replaced by depreciation and net finance costs. The impact on the Group's share of joint venture and associate profit is not material.

There is no overall impact on the Group's cash and cash equivalents although there is a change to the classification of cash flows in the cash flow statement with lease payments and finance lease receipts previously categorised as net cash used in operations now being split between the principal element (categorised in financing activities for payments and investing activities for receipts) and the interest element (categorised as interest paid in operating activities or interest received in investing activities). In 2019 there were £91m of lease payments classified as financing cash flows, £26m of lease receipts classified as investing cash flows, £45m of lease interest payments and £11m of lease interest receipts.

The Group has also included the lease liability and investment in finance lease as part of its net debt which impacts the calculation of the Group's non-GAAP measures for operating cash flow and free cash flow.

The lease liabilities at 1 January 2019 can be reconciled to the operating lease commitments at 31 December 2018 as follows:

<u>All figures in £ millions</u>	<u>1 January 2019</u>
Operating lease commitments disclosed at 31 December 2018 (note 35)	1,175
Discounted using the lessee's incremental borrowing rate at the date of initial application	(290)
(Less): commitments relating to short-term leases	(7)
Add: adjustments relating to the different treatment of extension and termination options	3
Additional lease liability recognised at 1 January 2019	881
Analysed at:	
Current lease liabilities	89
Non-current lease liabilities	792

In addition to the lease liabilities transitioned above, the Group had £5m of lease liabilities that were accounted for as finance leases at 31 December 2018. The weighted average incremental borrowing rate applied to the lease liabilities on 1 January 2019 was 5.0%.

1c. Change of accounting policy: IFRIC 23

The Group adopted IFRIC 23 'Uncertainty over Income Tax Treatments' effective 1 January 2019. The interpretation clarifies the application of the recognition and measurement requirements in IAS 12 'Income taxes' where there is uncertainty over income tax treatments. The interpretation provides guidance to determine whether uncertain tax positions should be considered separately or together, and that measurement should be whether the single most likely outcome or the probability weighted sum of a range of outcomes, whichever better predicts the resolution. The reassessment of current tax liabilities resulted in a decrease in liabilities of £5m but does not have a material impact on the income statement.

Notes to the consolidated financial statements

1d. Change of accounting policy: Amendments to IFRS 9 and IFRS 7

The Group has considered the impact of IBOR reform on its hedge accounting. The Group has elected to early adopt amendments to IFRS 9 and IFRS 7 ‘Interest Rate Benchmark Reform’ issued in September 2019. In accordance with the transition provisions, the amendments have been adopted retrospectively to hedging relationships that existed at the start of the reporting period or were designated thereafter. The amendments provide temporary relief from applying specific hedge accounting requirements to hedging relationships directly affected by IBOR reform. The adoption of these amendments has not had a material impact on these financial statements (see note 19).

2. Segment information

The primary segments for management and reporting are geographies as outlined below. In addition, the Group separately discloses the results from the Penguin Random House associate.

The chief operating decision-maker is the Pearson executive.

North America: Courseware, Assessments and Services businesses in the US and Canada.

Core: Courseware, Assessments and Services businesses in more mature markets including UK, Europe, Asia Pacific and North Africa.

Growth: Courseware, Assessments and Services businesses in emerging markets including Brazil, India, South Africa, Hispano-America, Hong Kong and China, and the Middle East.

For more detail on the services and products included in each business segment refer to Item 4.

All figures in £ millions	Notes	2019					Group
		North America	Core	Growth	Penguin Random House	Corporate	
Sales		2,534	838	497	—	—	3,869
Adjusted operating profit		361	92	63	65	—	581
Cost of major restructuring		(110)	(28)	(19)	(2)	—	(159)
Intangible charges		(62)	(7)	(82)	(12)	—	(163)
Other net gains and losses		13	8	(5)	—	—	16
Operating profit (loss)		202	65	(43)	51	—	275
Finance costs	6						(84)
Finance income	6						41
Profit before tax							232
Income tax	7						34
Profit for the year							266
Segment assets		4,316	1,957	484	—	489	7,246
Associates	12	—	7	—	397	—	404
Total assets		4,316	1,964	484	397	489	7,650
Other segment items							
Share of results of joint ventures and associates	12	—	3	—	51	—	54
Capital expenditure	10, 11	176	35	51	—	—	262
Pre-publication investment	20	189	81	49	—	—	319
Depreciation	10	75	23	25	—	—	123
Amortisation	11, 20	305	85	147	—	—	537

Notes to the consolidated financial statements

2. Segment information continued

All figures in £ millions	Notes	2018					Group
		North America	Core	Growth	Penguin Random House	Corporate	
Sales		2,784	806	539	—	—	4,129
Adjusted operating profit		362	57	59	68	—	546
Cost of major restructuring		(78)	(16)	—	(8)	—	(102)
Intangible charges		(72)	(8)	(19)	(14)	—	(113)
Other net gains and losses		4	—	226	—	—	230
UK pension GMP equalisation		—	(8)	—	—	—	(8)
Operating profit		<u>216</u>	<u>25</u>	<u>266</u>	<u>46</u>	<u>—</u>	<u>553</u>
Finance costs	6						(91)
Finance income	6						36
Profit before tax							<u>498</u>
Income tax	7						92
Profit for the year							<u>590</u>
Segment assets		4,366	1,975	536	—	636	7,513
Associates	12	—	5	—	387	—	392
Total assets		<u>4,366</u>	<u>1,980</u>	<u>536</u>	<u>387</u>	<u>636</u>	<u>7,905</u>
Other segment items							
Share of results of joint ventures and associates	12	(4)	1	1	46	—	44
Capital expenditure	10, 11	135	25	36	—	—	196
Pre-publication investment	20	234	90	64	—	—	388
Depreciation	10	41	12	13	—	—	66
Amortisation	11, 20	344	92	89	—	—	525

Included in the North America segment above is £60m in pre-publication investment and £67m in amortisation relating to assets held for sale.

Notes to the consolidated financial statements

2. Segment information continued

All figures in £ millions	Notes	2017					Group
		North America	Core	Growth	Penguin Random House	Corporate	
Sales		2,929	815	769	—	—	4,513
Adjusted operating profit		394	50	38	94	—	576
Cost of major restructuring		(60)	(11)	(8)	—	—	(79)
Intangible charges		(89)	(12)	(37)	(28)	—	(166)
Other net gains and losses		(3)	—	35	96	—	128
Impact of US tax reform		—	—	—	(8)	—	(8)
Operating profit		<u>242</u>	<u>27</u>	<u>28</u>	<u>154</u>	<u>—</u>	<u>451</u>
Finance costs	6						(110)
Finance income	6						80
Profit before tax							<u>421</u>
Income tax	7						(13)
Profit for the year							<u>408</u>
Segment assets		4,116	1,914	667	—	793	7,490
Joint ventures	12	—	—	3	—	—	3
Associates	12	4	3	—	388	—	395
Total assets		<u>4,120</u>	<u>1,917</u>	<u>670</u>	<u>388</u>	<u>793</u>	<u>7,888</u>
Other segment items							
Share of results of joint ventures and associates	12	5	1	1	71	—	78
Capital expenditure	10,11	162	35	43	—	—	240
Pre-publication investment	20	218	84	59	—	—	361
Depreciation	10	56	13	21	—	—	90
Amortisation	11,20	348	103	110	—	—	561

There were no material inter-segment sales in either 2019, 2018 or 2017.

Adjusted operating profit is shown in the above tables as it is the key financial measure used by management to evaluate the performance of the Group and allocate resources to business segments. The measure also enables investors to more easily, and consistently, track the underlying operational performance of the Group and its business segments over time by separating out those items of income and expenditure relating to acquisition and disposal transactions, major restructuring programmes and certain other items that are also not representative of underlying performance, which are explained below.

Cost of major restructuring: In May 2017, the Group announced a restructuring programme, to run between 2017 and 2019, to drive significant cost savings. This programme began in the second half of 2017 and net costs incurred were £79m in 2017, £102m in 2018 and £159m in 2019 and relate to delivery of cost efficiencies in the enabling functions and the US Higher Education Courseware business together with further rationalisation of the property and supplier portfolio. The restructuring costs in 2019 relate predominantly to staff redundancies while the restructuring costs in 2018 relate predominantly to staff redundancies and the net cost of property rationalisation including the net impact of the consolidation of the Group's property footprint in London. The costs of this restructuring programme are significant enough to exclude from the adjusted operating profit measure so as to better highlight the underlying performance (see note 4).

Notes to the consolidated financial statements

2. Segment information continued

Intangible charges: These represent charges relating to acquired intangibles, acquisition costs and movements in contingent acquisition and disposal consideration. These charges are excluded as they reflect past acquisition activity and do not necessarily reflect the current year performance of the Group. Intangible amortisation charges in 2019 were £163m, including an impairment charge of £65m relating to acquired intangibles in Brazil, compared with a charge of £113m in 2018 and £166m in 2017.

Other net gains and losses: These represent profits and losses on the sale of subsidiaries, joint ventures, associates and other financial assets and are excluded from adjusted operating profit as they distort the performance of the Group as reported on a statutory basis. Other net gains of £16m in 2019 mainly relate to the sale of the US K12 Courseware business. Other net gains of £230m in 2018 relate to the sale of the Wall Street English language teaching business (WSE), realising a gain of £207m, the disposal of the Group's equity interest in UTEL, the online university partnership in Mexico, realising a gain of £19m, and various other smaller disposal items for a net gain of £4m. Other net gains of £128m in 2017 relate to the sale of the test preparation business in China which resulted in a profit on sale of £44m and the part sale of the Group's share in Penguin Random House which resulted in a profit of £96m and other smaller disposal items for a net loss of £12m (see note 31).

UK pension GMP equalisation: In 2018, also excluded is the impact of adjustments arising from clarification of guaranteed minimum pension (GMP) equalisation legislation in the UK as this relates to historical circumstances.

Impact of US tax reform: In 2017, as a result of US tax reform, the Group's share of profit from associates was adversely impacted by £8m. This amount was excluded from adjusted operating profit as it is considered to be a transition adjustment that is not expected to recur in the near future.

Corporate costs are allocated to business segments on an appropriate basis depending on the nature of the cost and therefore the total segment result is equal to the Group operating profit.

Segment assets, excluding corporate assets, consist of property, plant and equipment, intangible assets, inventories, receivables, deferred taxation and other financial assets and exclude cash and cash equivalents and derivative assets. Corporate assets comprise cash and cash equivalents, marketable securities and derivative financial instruments. Capital expenditure comprises additions to property, plant and equipment and software (see notes 10 and 11).

Property, plant and equipment and intangible assets acquired through business combinations were £23m (2018: £nil), (2017: £nil) (see note 30).

The Group operates in the following main geographic areas:

<u>All figures in £ millions</u>	<u>Sales</u>			<u>Non-current assets</u>	
	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2019</u>	<u>2018</u>
UK	385	377	384	694	900
Other European countries	244	246	262	125	143
US	2,417	2,627	2,770	2,604	2,162
Canada	105	126	126	163	250
Asia Pacific	441	455	643	149	146
Other countries	277	298	328	103	137
Total	<u>3,869</u>	<u>4,129</u>	<u>4,513</u>	<u>3,838</u>	<u>3,738</u>

Notes to the consolidated financial statements

2. Segment information continued

Sales are allocated based on the country in which the customer is located. This does not differ materially from the location where the order is received. The geographical split of non-current assets is based on the subsidiary's country of domicile. This is not materially different to the location of the assets. Non-current assets comprise property, plant and equipment, intangible assets, investments in joint ventures and associates and trade and other receivables.

3. Revenue from contracts with customers

The following tables analyse the Group's revenue streams. Courseware includes curriculum materials provided in book form and/or via access to digital content. Assessments includes test development, processing and scoring services provided to governments, educational institutions, corporations and professional bodies. Services includes the operation of schools, colleges and universities, including sistemas in Brazil, as well as the provision of online learning services in partnership with universities and other academic institutions.

<u>All figures in £ millions</u>	<u>2019</u>			
	<u>North America</u>	<u>Core</u>	<u>Growth</u>	<u>Group</u>
Sales:				
Courseware				
School Courseware	86	169	118	373
Higher Education Courseware	975	81	44	1,100
English Courseware	14	56	107	177
	<u>1,075</u>	<u>306</u>	<u>269</u>	<u>1,650</u>
Assessments				
School and Higher Education Assessments	309	264	26	599
Clinical Assessments	175	52	—	227
Professional and English Certification	390	168	80	638
	<u>874</u>	<u>484</u>	<u>106</u>	<u>1,464</u>
Services				
School Services	319	2	46	367
Higher Education Services	266	45	26	337
English Services	—	1	50	51
	<u>585</u>	<u>48</u>	<u>122</u>	<u>755</u>
Total	<u>2,534</u>	<u>838</u>	<u>497</u>	<u>3,869</u>

Notes to the consolidated financial statements

3. Revenue from contracts with customers continued

<u>All figures in £ millions</u>	2018			
	<u>North America</u>	<u>Core</u>	<u>Growth</u>	<u>Group</u>
Sales:				
Courseware				
School Courseware	378	172	127	677
Higher Education Courseware	1,042	87	57	1,186
English Courseware	16	58	102	176
	<u>1,436</u>	<u>317</u>	<u>286</u>	<u>2,039</u>
Assessments				
School and Higher Education Assessments ¹	298	237	23	558
Clinical Assessments ¹	174	55	—	229
Professional and English Certification	344	150	64	558
	<u>816</u>	<u>442</u>	<u>87</u>	<u>1,345</u>
Services				
School Services	288	2	47	337
Higher Education Services	244	40	29	313
English Services	—	5	90	95
	<u>532</u>	<u>47</u>	<u>166</u>	<u>745</u>
Total	<u>2,784</u>	<u>806</u>	<u>539</u>	<u>4,129</u>
	2017			
<u>All figures in £ millions</u>	<u>North America</u>	<u>Core</u>	<u>Growth</u>	<u>Group</u>
Sales:				
Courseware				
School Courseware	394	171	139	704
Higher Education Courseware	1,146	93	63	1,302
English Courseware	20	60	102	182
	<u>1,560</u>	<u>324</u>	<u>304</u>	<u>2,188</u>
Assessments				
School and Higher Education Assessments ¹	318	256	23	597
Clinical Assessments ¹	183	46	—	229
Professional and English Certification	341	138	60	539
	<u>842</u>	<u>440</u>	<u>83</u>	<u>1,365</u>
Services				
School Services	274	5	54	333
Higher Education Services	253	34	32	319
English Services	—	12	296	308
	<u>527</u>	<u>51</u>	<u>382</u>	<u>960</u>
Total	<u>2,929</u>	<u>815</u>	<u>769</u>	<u>4,513</u>

1 The analysis of Assessments revenues in 2018 and 2017 have been re-presented to reflect the transfer of a product from School to Clinical.

Notes to the consolidated financial statements

3. Revenue from contracts with customers continued

The Group derived revenue from the transfer of goods and services over time and at a point in time in the following major product lines:

All figures in £ millions	2019			
	North America	Core	Growth	Total
Courseware				
Products transferred at a point in time (sale or return)	448	291	178	917
Products transferred at a point in time (other)	—	—	37	37
Products and services transferred over time	627	15	54	696
	<u>1,075</u>	<u>306</u>	<u>269</u>	<u>1,650</u>
Assessments				
Products transferred at a point in time	113	55	6	174
Products and services transferred over time	761	429	100	1,290
	<u>874</u>	<u>484</u>	<u>106</u>	<u>1,464</u>
Services				
Products transferred at a point in time	—	26	—	26
Products and services transferred over time	585	22	122	729
	<u>585</u>	<u>48</u>	<u>122</u>	<u>755</u>
Total	<u>2,534</u>	<u>838</u>	<u>497</u>	<u>3,869</u>
All figures in £ millions	2018			
	North America	Core	Growth	Total
Courseware				
Products transferred at a point in time (sale or return)	718	313	197	1,228
Products transferred at a point in time (other)	—	—	35	35
Products and services transferred over time	718	4	54	776
	<u>1,436</u>	<u>317</u>	<u>286</u>	<u>2,039</u>
Assessments¹				
Products transferred at a point in time	106	52	—	158
Products and services transferred over time	710	390	87	1,187
	<u>816</u>	<u>442</u>	<u>87</u>	<u>1,345</u>
Services				
Products transferred at a point in time	—	26	38	64
Products and services transferred over time	532	21	128	681
	<u>532</u>	<u>47</u>	<u>166</u>	<u>745</u>
Total	<u>2,784</u>	<u>806</u>	<u>539</u>	<u>4,129</u>

1 The analysis of Assessments revenues in 2018 has been re-presented to better reflect the nature of sales.

Notes to the consolidated financial statements

3. Revenue from contracts with customers continued

a. Nature of goods and services

The following is a description of the nature of the Group's performance obligations within contracts with customers broken down by revenue stream, along with significant judgements and estimates made within each of those revenue streams.

Courseware

Revenue is generated from customers through the sales of print and digital courseware materials to schools, bookstores and direct to individual learners. Goods and services may be sold separately or purchased together in bundled packages. The goods and services included in bundled arrangements are considered distinct performance obligations, except for where Pearson provides both a licence of intellectual property and an on-going hosting service. As the licence of intellectual property is only available with the concurrent hosting service, the licence is not treated as a distinct performance obligation separate from the hosting service.

The transaction price is allocated between distinct performance obligations on the basis of their relative standalone selling prices.

In determining the transaction price, variable consideration exists in the form of discounts and anticipated returns. Discounts reduce the transaction price on a given transaction. A provision for anticipated returns is made based primarily on historical return rates, customer buying patterns and retailer behaviours including stock levels (see note 24). If these estimates do not reflect actual returns in future periods then revenues could be understated or overstated for a particular period. Variable consideration as described above is determined using the expected value approach. The sales return liability at the end of 2019 was £122m (see note 24). This represents 3% of annual sales subject to sale or return.

While payment for these goods and services generally occurs at the start of these arrangements, the length of time between payment and delivery of the performance obligations is generally short-term in nature or the reason for early payment relates to reasons other than financing, including customers securing a vendor in a longer-term arrangement or the transfer of goods or services is at the discretion of the customer. For these reasons and the use of the practical expedient on short-term financing, significant financing components are not recognised within Courseware transactions.

Revenue from the sale of physical books is recognised at a point in time when control passes. This is generally at the point of shipment when title passes to the customer, when the Group has a present right to payment and the significant risks and rewards of ownership have passed to the customer. Revenue from physical books sold through the direct print rental method is recognised over the rental period, as the customer is simultaneously receiving and consuming the benefits of this rental service through the passage of time.

Revenue from the sale of digital courseware products is recognised on a straight-line basis over the subscription period, unless hosted by a third party or representative of a downloadable product, in which case Pearson has no on-going obligation and recognises revenue when control transfers as the customer is granted access to the digital product.

Revenue from the sale of 'off-the-shelf' software is recognised on delivery or on installation of the software where that is a condition of the contract. In certain circumstances, where installation is complex, revenue is recognised when the customer has completed their acceptance procedures.

Notes to the consolidated financial statements

3. Revenue from contracts with customers continued

a. Nature of goods and services continued

Assessments

Revenue is primarily generated from multi-year contractual arrangements related to large-scale assessment delivery, such as contracts to process qualifying tests for individual professions and government departments, and is recognised as performance occurs. Under these arrangements, while the agreement spans multiple years, the contract duration has been determined to be each testing cycle based on contract structure, including clauses regarding termination. While in some cases the customer may have the ability to terminate during the term for convenience, significant financial or qualitative barriers exist limiting the potential for such terminations in the middle of a testing cycle.

Within each testing cycle, a variety of service activities are performed such as test administration, delivery, scoring, reporting, item development, operational services and programme management. These services are not treated as distinct in the context of the customer contract as Pearson provides an integrated managed service offering and these activities are accounted for together as one comprehensive performance obligation.

Within each testing cycle, the transaction price may contain both fixed and variable amounts. Variable consideration within these transactions primarily relates to expected testing volumes to be delivered in the cycle. The assumptions, risks and uncertainties inherent to long-term contract accounting can affect the amounts and timing of revenue and related expenses reported. Variable consideration is measured using the expected value method, except where amounts are contingent upon a future event's occurrence, such as performance bonuses. Such event-driven contingency payments are measured using the most likely amount approach. To the extent that a higher degree of uncertainty exists regarding variable consideration, these amounts are excluded from the transaction price and expensed when the uncertainty is reasonably removed.

Customer payments are generally defined in the contract through a payment schedule, which may require customer acceptance for services rendered. Pearson has a history of providing satisfactory services which are accepted by the customer. While a delay between rendering of services and payment may exist, payment terms are within 12 months and the Group has elected to use the practical expedient available in IFRS 15 Revenue from Contracts with Customers and not identify a significant financing component on these transactions.

Revenue is recognised for Assessment contracts over time as the customer is benefiting as performance takes place through a continuous transfer of control to the customer. This continuous transfer of control to the customer is supported by clauses in the contracts which may allow the customer to terminate for convenience, compensate us for work performed to date, and take possession of work in process.

As control transfers over time, revenue is recognised based on the extent of progress towards completion of the performance obligation. The selection of the method to measure progress towards completion requires judgement and is based on the nature of the services provided. Revenue is recognised on a percentage completion basis, calculated using the proportion of the total estimated costs incurred to date. Percentage of completion is used to recognise the transfer of control of services provided as these services are not provided evenly throughout the testing cycle and involve varying degrees of effort during the term.

Losses on contracts are recognised in the period in which the loss first becomes foreseeable. Contract losses are determined to be the amount by which estimated total costs of the contract exceed the estimated total revenues that will be generated.

In Assessments contracts driven primarily by transactions directly to end users, Pearson's main obligation to the customer involves test delivery and scoring. Test delivery and scoring are defined as a single performance

Notes to the consolidated financial statements

3. Revenue from contracts with customers continued

a. Nature of goods and services continued

Assessments continued

obligation delivered over time whether the test is subsequently manually scored or digitally scored on the day of the assessment. Customers may also purchase print and digital supplemental materials. Print products in this revenue stream are recognised at a point in time when control passes to the customer upon shipment. Recognition of digital revenue will occur based on the extent of Pearson's on-going hosting obligation.

Services

Revenue is primarily generated from multi-year contractual arrangements related to large-scale educational service delivery to academic institutions, such as schools and higher education universities. Under these arrangements, while an agreement may span multiple years, the contract duration has been determined to be each academic period based on the structure of contracts, including clauses regarding termination. While in some cases the customer may have the ability to terminate during the term for convenience, significant financial or qualitative barriers exist limiting the potential for such terminations in the middle of an academic period. The academic period for this customer base is normally an academic year for schools and a semester for higher education universities.

Within each academic period, a variety of services are provided such as programme development, student acquisition, education technology and student support services. These services are not distinct in the context of the customer contract as Pearson provides an integrated managed service offering and these activities are accounted for together as a comprehensive performance obligation.

Where Services are provided to university customers, volume and transaction price are fixed at the start of the semester. Where Services are provided to School customers, the transaction price may contain both fixed and variable amounts which require estimation during the academic period. Estimation is required where consideration is based upon average enrolments or other metrics which are not known at the start of the academic year. Variable consideration is measured using the expected value method. To the extent that a higher degree of uncertainty exists regarding variable consideration, these amounts are excluded from the transaction price and recognised when the uncertainty is reasonably removed.

Customer payments are generally defined in the contract as occurring shortly after invoicing. Where there is a longer payment term offered to a customer through a payment schedule, payment terms are within 12 months and the Group has elected to use the practical expedient available in IFRS 15 and not identify a significant financing component on these transactions.

Revenue is recognised for Service contracts over time as the customer is benefiting as performance takes place through a continuous transfer of control to the customer. This continuous transfer of control to the customer is supported by clauses in the contracts which may allow the customer to terminate for convenience, compensate for work performed to date, and take possession of work in process.

As control transfers over time, revenue is recognised based on the extent of progress towards completion of the performance obligation. The selection of the method to measure progress towards completion requires judgement and is based on the nature of the products or services provided. Within the comprehensive service obligation, the timing of services occurs relatively evenly over each academic period and, as such, time elapsed is used to recognise the transfer of control to the customer on a straight-line basis.

Notes to the consolidated financial statements

3. Revenue from contracts with customers continued

a. Nature of goods and services continued

Services continued

Losses on contracts are recognised in the period in which the loss first becomes foreseeable. Contract losses are determined to be the amount by which estimated total costs of the contract exceed the estimated total revenues that will be generated.

In cases of optional or add-on purchases, institutions may purchase physical goods priced at their standalone value, which are accounted for separately and recognised at the point in time when control passes to the customer upon shipment.

b. Disaggregation of revenue

The tables in notes 2 and 3 show revenue from contracts with customers disaggregated by operating segment, geography and revenue stream. These disaggregation categories are appropriate as they represent the key groupings used in managing and evaluating underlying performance of each of the businesses. The categories also reflect groups of similar types of transactional characteristics, among similar customers, with similar accounting conclusions.

c. Contract balances

Transactions within the Courseware revenue stream generally entail customer billings at or near the contract's inception and accordingly Courseware deferred income balances are primarily related to subscription performance obligations to be delivered over time.

Transactions within the Assessments and Services revenue streams generally entail customer billings over time based on periodic intervals, progress towards milestones or enrolment census dates. As the performance obligations within these arrangements are delivered over time, the extent of accrued income or deferred income will ultimately depend upon the difference between revenue recognised and billings to date.

Refer to note 22 for opening and closing balances of accrued income. Refer to note 24 for opening and closing balances of deferred income. Revenue recognised during the period from changes in deferred income was driven primarily by the release of revenue over time from digital subscriptions.

d. Contract costs

The Group capitalises incremental costs to obtain contracts with customers where it is expected these costs will be recoverable. Incremental costs to obtain contracts with customers are considered those which would not have been incurred if the contract had not been obtained. For the Group, these costs relate primarily to sales commissions. The Group has elected to use the practical expedient as allowable by IFRS 15 whereby such costs will be expensed as incurred where the expected amortisation period is one year or less. Where the amortisation period is greater than one year, these costs are amortised over the contract term on a systematic basis consistent with the transfer of the underlying goods and services within the contract to which these costs relate, which will generally be on a ratable basis. Impairment of capitalised contract costs was £nil in 2019, 2018 and 2017.

The Group does not recognise any material costs to fulfil contracts with customers as these types of activities are governed by other accounting standards.

Refer to note 22 for further details of opening and closing balances of these costs reflected within deferred contract costs.

Notes to the consolidated financial statements

3. Revenue from contracts with customers continued

e. Remaining transaction price

The below table depicts the remaining transaction price on unsatisfied or partially unsatisfied performance obligations from contracts with customers.

All figures in £ millions	2019						
	Sales	Deferred income	Committed sales	Total remaining transaction price	2020	2021	2022 and later
Courseware							
Products transferred at a point in time (sale or return)	917	1	—	1	1	—	—
Products transferred at a point in time (other) . .	37	1	—	1	1	—	—
Products and services transferred over time	<u>696</u>	<u>118</u>	<u>—</u>	<u>118</u>	<u>82</u>	<u>13</u>	<u>23</u>
Assessments							
Products transferred at a point in time	174	—	—	—	—	—	—
Products and services transferred over time	<u>1,290</u>	<u>206</u>	<u>375</u>	<u>581</u>	<u>433</u>	<u>146</u>	<u>2</u>
Services							
Products transferred at a point in time	26	3	—	3	3	—	—
Products and services transferred over time – subscriptions	310	11	—	11	11	—	—
Products and services transferred over time – other ongoing performance obligations	<u>419</u>	<u>20</u>	<u>106</u>	<u>126</u>	<u>125</u>	<u>1</u>	<u>—</u>
Total	<u><u>3,869</u></u>	<u><u>360</u></u>	<u><u>481</u></u>	<u><u>841</u></u>	<u><u>656</u></u>	<u><u>160</u></u>	<u><u>25</u></u>
2018							
All figures in £ millions	Sales	Deferred income	Committed sales	Total remaining transaction price	2019	2020	2021 and later
Courseware							
Products transferred at a point in time (sale or return)	1,228	1	—	1	1	—	—
Products transferred at a point in time (other) . .	35	—	—	—	—	—	—
Products and services transferred over time	<u>776</u>	<u>679</u>	<u>8</u>	<u>687</u>	<u>272</u>	<u>131</u>	<u>284</u>
Assessments¹							
Products transferred at a point in time	158	—	—	—	—	—	—
Products and services transferred over time	<u>1,187</u>	<u>196</u>	<u>402</u>	<u>598</u>	<u>420</u>	<u>173</u>	<u>5</u>
Services							
Products transferred at a point in time	64	—	—	—	—	—	—
Products and services transferred over time – subscriptions	310	17	—	17	13	3	1
Products and services transferred over time – other ongoing performance obligations	<u>371</u>	<u>19</u>	<u>145</u>	<u>164</u>	<u>162</u>	<u>1</u>	<u>1</u>
Total	<u><u>4,129</u></u>	<u><u>912</u></u>	<u><u>555</u></u>	<u><u>1,467</u></u>	<u><u>868</u></u>	<u><u>308</u></u>	<u><u>291</u></u>

1 The analysis of Assessments revenues in 2018 has been re-presented to better reflect the nature of sales.

Committed sales amounts are equal to the transaction price from contracts with customers, excluding those amounts previously recognised as revenue and amounts currently recognised in deferred income. The total of committed sales and deferred income is equal to the remaining transaction price.

Notes to the consolidated financial statements

3. Revenue from contracts with customers continued

e. Remaining transaction price continued

Time bands stated above represent the expected timing of when the remaining transaction price will be recognised as revenue.

4. Operating expenses

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
By function:			
Cost of goods sold	1,858	1,943	2,066
Operating expenses			
Distribution costs	73	88	84
Selling, marketing and product development costs	631	759	896
Administrative and other expenses	999	1,039	1,207
Restructuring costs	157	90	79
Other income	(54)	(69)	(64)
Total net operating expenses	1,806	1,907	2,202
Other net gains and losses	(16)	(230)	(128)
Total	3,648	3,620	4,140

Included in other income is service fee income from Penguin Random House of £4m (2018: £3m, 2017: £3m). Included in administrative and other expenses are research and efficacy costs of £13m (2018: £14m, 2017: £14m). In addition to the restructuring costs shown above, there were major restructuring costs in relation to associates of £2m (2018: £12m, 2017: £nil).

An analysis of major restructuring costs is as follows:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
By nature:			
Product costs	16	12	15
Employee costs	90	56	11
Depreciation and amortisation	14	1	13
Property and facilities	12	(5)	24
Technology and communications	2	1	2
Professional and outsourced services	17	9	12
General and administrative costs	6	16	2
Total restructuring – operating expenses	157	90	79
Share of associate restructuring	2	12	—
Total	159	102	79

Notes to the consolidated financial statements

4. Operating expenses continued

In May 2017, the Group announced a restructuring programme to run between 2017 and 2019 to drive further significant cost savings. The costs of this programme have been excluded from adjusted operating profit so as to better highlight the underlying performance (see note 8). In 2018, property and facilities costs include gains on the disposal of properties sold as part of the restructuring programme.

<u>All figures in £ millions</u>	<u>Notes</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
By nature:				
Royalties expensed		242	236	246
Other product costs		466	516	564
Employee benefit expense	5	1,452	1,637	1,805
Contract labour		139	161	152
Employee-related expense		94	115	127
Promotional costs		254	233	229
Depreciation of property, plant and equipment	10	123	66	90
Amortisation of intangible assets – pre-publication	20	271	338	338
Amortisation of intangible assets – software	11	115	88	85
Amortisation and impairment of intangible assets – other	11	151	99	138
Property and facilities		96	147	202
Technology and communications		196	192	218
Professional and outsourced services		480	396	322
Other general and administrative costs		104	85	140
Costs capitalised to intangible assets		(465)	(390)	(324)
Other net gains and losses		(16)	(230)	(128)
Other income		(54)	(69)	(64)
Total		<u>3,648</u>	<u>3,620</u>	<u>4,140</u>

During the year the Group obtained the following services from the Group's auditors:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
The audit of parent company and consolidated financial statements	5	4	4
The audit of the company's subsidiaries	2	2	2
Total audit fees	7	6	6
Audit-related and other assurance services	—	1	1
Other non-audit services	—	—	1
Total other services	—	1	2
Total non-audit services	—	1	2
Total	<u>7</u>	<u>7</u>	<u>8</u>

Reconciliation between audit and non-audit service fees is shown below:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Group audit fees including fees for attestation under section 404 of the Sarbanes-Oxley Act	7	6	6
Non-audit fees	—	1	2
Total	<u>7</u>	<u>7</u>	<u>8</u>

Notes to the consolidated financial statements

4. Operating expenses continued

Fees for attestation under section 404 of the Sarbanes-Oxley Act are allocated between fees payable for the audits of consolidated and subsidiary accounts.

Included in non-audit fees is audit related work in relation to disposal transactions and other assurance work related to the audit of the Group's efficacy programme. Included in Group audit fees for 2019 are additional fees in relation to prior year audit work.

5. Employee information

<u>All figures in £ millions</u>	<u>Notes</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Employee benefit expense				
Wages and salaries (including termination costs)		1,258	1,421	1,567
Social security costs		100	112	130
Share-based payment costs	26	25	37	33
Retirement benefits – defined contribution plans	25	57	56	57
Retirement benefits – defined benefit plans	25	13	23	19
Other post-retirement medical benefits	25	(1)	(12)	(1)
Total		<u>1,452</u>	<u>1,637</u>	<u>1,805</u>

The details of the emoluments of the Directors of Pearson plc are shown in the report on Directors' remuneration.

<u>Average number employed</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Employee numbers			
North America	13,564	14,113	16,295
Core	4,951	5,192	5,291
Growth	3,693	4,521	8,268
Other	526	496	485
Total	<u>22,734</u>	<u>24,322</u>	<u>30,339</u>

Notes to the consolidated financial statements

6. Net finance costs

<u>All figures in £ millions</u>	<u>Notes</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Interest payable on financial liabilities at amortised cost and associated derivatives		(22)	(42)	(99)
Interest on lease liabilities		(45)	—	—
Net foreign exchange losses		(5)	(36)	—
Finance costs associated with transactions		—	(1)	(6)
Derivatives not in a hedge relationship		(12)	(7)	(5)
Derivatives in a hedge relationship		—	(5)	—
Finance costs		(84)	(91)	(110)
Interest receivable on financial assets at amortised cost		15	18	20
Interest on lease receivables		11	—	—
Net finance income in respect of retirement benefits	25	13	11	3
Net foreign exchange gains		—	—	44
Derivatives not in a hedge relationship		2	6	12
Derivatives in a hedge relationship		—	1	1
Finance income		41	36	80
Net finance costs		(43)	(55)	(30)

Included in interest receivable is £1m (2018: £1m, 2017: £1m) of interest receivable from related parties. Net movement in fair value of hedges is explained in note 16.

For further information on adjusted measures above, see note 8.

7. Income tax

<u>All figures in £ millions</u>	<u>Notes</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Current tax				
Credit/(charge) in respect of current year		(51)	92	(121)
Adjustments in respect of prior years		21	34	(2)
Total current tax credit/(charge)		(30)	126	(123)
Deferred tax				
In respect of temporary differences		59	(6)	96
Other adjustments in respect of prior years		5	(28)	14
Total deferred tax (charge)/credit	13	64	(34)	110
Total tax credit/(charge)		34	92	(13)

The adjustments in respect of prior years in 2019, 2018 and 2017 primarily arise from revising the previous year's reported tax provision to reflect the tax returns subsequently filed. This results in a change between deferred and current tax as well as an absolute benefit to the total tax charge.

Notes to the consolidated financial statements

7. Income tax continued

The tax on the Group's profit before tax differs from the theoretical amount that would arise using the UK tax rate as follows:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Profit before tax	232	498	421
Tax calculated at UK rate (2019: 19%, 2018: 19%, 2017: 19.25%) . . .	(44)	(94)	(81)
Effect of overseas tax rates	(2)	(28)	15
Joint venture and associate income reported net of tax	10	8	15
Intangible impairment not subject to tax	—	—	—
Intra-group financing benefit	11	25	26
Movement in provisions for tax uncertainties	3	111	49
Impact of US tax reform	—	—	(1)
Net expense not subject to tax	(10)	(29)	(39)
Benefit from change in US tax accounting treatment	—	25	—
Gains and losses on sale of businesses not subject to tax	57	77	8
Utilisation of previously unrecognised tax losses and credits	—	—	(1)
Unrecognised tax losses	(17)	(9)	(16)
Adjustments in respect of prior years	26	6	12
Total tax credit/(charge)	34	92	(13)
UK	(12)	37	(36)
Overseas	46	55	23
Total tax credit/(charge)	34	92	(13)
Tax rate reflected in earnings	(14.7)%	(18.5)%	3.1%

Included in net expense not subject to tax are foreign taxes not creditable, the tax impact of share-based payments and other expenses not deductible.

Factors which may affect future tax charges include changes in tax legislation, transfer pricing regulations, the level and mix of profitability in different countries, and settlements with tax authorities.

The movement in provisions for tax uncertainties primarily reflects releases due to the expiry of relevant statutes of limitation, utilisation of brought forward provisions and the establishment of provisions for new uncertain tax positions. The current tax liability of £55m (2018: £72m) includes £152m (2018: £181m) of provisions for tax uncertainties principally in respect of a number of issues in the US, the UK and China. The issues provided for include the allocation between territories of proceeds of historical business disposals and the potential disallowance of intra-Group recharges. The Group is currently under audit in a number of countries, and the timing of any resolution of these audits is uncertain. Of the balance of £152m, £88m relates to 2015 and earlier and is mostly under audit. In most countries, tax years up to and including 2014 are now statute barred from examination by tax authorities. Of the remaining balance, £18m relates to 2016, £30m to 2017, £4m to 2018 and £12m to 2019. If relevant enquiry windows pass with no audit, management believes it is reasonably possible that provision levels will reduce by an estimated £3m within the next 12 months. However the tax authorities may take a different view from management and the final liability may be greater than provided. For items currently under audit if tax authorities are successful, any incremental exposure is not expected to be material this year (2018: £25m). Contingent liabilities relating to tax are disclosed in note 34.

Notes to the consolidated financial statements

7. Income tax continued

The tax benefit/(charge) recognised in other comprehensive income is as follows:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Net exchange differences on translation of foreign operations	5	(4)	9
Fair value gain on other financial assets	(4)	—	(4)
Remeasurement of retirement benefit obligations ..	<u>22</u>	<u>9</u>	<u>(42)</u>
	<u><u>23</u></u>	<u><u>5</u></u>	<u><u>(37)</u></u>

A tax charge of £5m (2018: £4m, 2017: £nil) relating to share-based payments has been recognised directly in equity.

8. Earnings per share

Basic

Basic earnings per share is calculated by dividing the profit attributable to equity shareholders of the company by the weighted average number of ordinary shares in issue during the year, excluding ordinary shares purchased by the company and held as treasury shares.

Diluted

Diluted earnings per share is calculated by adjusting the weighted average number of ordinary shares to take account of all dilutive potential ordinary shares and adjusting the profit attributable, if applicable, to account for any tax consequences that might arise from conversion of those shares.

<u>All figures in £ millions</u>	<u>Notes</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Earnings/(loss) for the year from continuing operations		266	590	408
Non-controlling interest		(2)	(2)	(2)
Earnings/(loss) attributable to equity holders of the company		<u>264</u>	<u>588</u>	<u>406</u>
Weighted average number of shares (millions)		777.0	778.1	813.4
Effect of dilutive share options (millions)		0.5	0.6	0.3
Weighted average number of shares (millions) for diluted earnings		<u>777.5</u>	<u>778.7</u>	<u>813.7</u>
Earnings/(loss) per share				
Basic		34.0p	75.6p	49.9p
Diluted		34.0p	75.5p	49.9p

9. Dividends

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Final paid in respect of prior year 13.5p (2018: 12.0p, 2017: 34.0p)	101	93	277
Interim paid in respect of current year 6.0p (2018: 5.5p, 2017: 5.0p)	<u>46</u>	<u>43</u>	<u>41</u>
	<u><u>147</u></u>	<u><u>136</u></u>	<u><u>318</u></u>

The Directors are proposing a final dividend in respect of the financial year ended 31 December 2019 of 13.5p per share which will absorb an estimated £106m of shareholders' funds. It will be paid on 7 May 2020 to shareholders who are on the register of members on 27 March 2020. These financial statements do not reflect this dividend.

Notes to the consolidated financial statements

10. Property, plant and equipment

All figures in £ millions	Right-of-use assets		Owned assets			Total
	Land and buildings	Plant and equipment	Land and buildings	Plant and equipment	Assets in course of construction	
Cost						
At 1 January 2018	—	—	330	527	29	886
Exchange differences	—	—	11	14	1	26
Additions	—	—	32	22	12	66
Disposals	—	—	(75)	(97)	—	(172)
Reclassifications	—	—	19	(8)	(11)	—
Transfer to intangible assets	—	—	—	—	(11)	(11)
Transfer to intangible assets – pre-publication	—	—	—	—	(2)	(2)
At 31 December 2018	—	—	317	458	18	793
Adjustment on initial application of IFRS 16 (see note 1b)	418	6	—	—	—	424
Exchange differences	(9)	—	(8)	(15)	—	(32)
Additions	64	2	—	18	40	124
Disposals	(13)	(4)	(13)	(108)	(8)	(146)
Reclassifications	—	—	4	(4)	—	—
Transfer of finance leases	—	19	—	(19)	—	—
Transfer to intangible assets	—	—	—	(3)	(4)	(7)
Transfer to intangible assets – pre-publication	—	—	—	(2)	(10)	(12)
At 31 December 2019	460	23	300	325	36	1,144
	Right-of-use assets		Owned assets			
All figures in £ millions	Land and buildings	Plant and equipment	Land and buildings	Plant and equipment	Assets in course of construction	Total
Depreciation						
At 1 January 2018	—	—	(197)	(408)	—	(605)
Exchange differences	—	—	(5)	(11)	—	(16)
Charge for the year	—	—	(20)	(46)	—	(66)
Disposals	—	—	34	97	—	131
Reclassifications	—	—	(7)	7	—	—
At 31 December 2018	—	—	(195)	(361)	—	(556)
Exchange differences	2	—	6	13	—	21
Charge for the year	(60)	(4)	(21)	(38)	—	(123)
Disposals	—	—	10	116	—	126
Transfer of finance leases	—	(12)	—	12	—	—
Transfer to intangible assets	—	—	—	3	—	3
Transfer to intangible assets – pre-publication	—	—	—	3	—	3
At 31 December 2019	(58)	(16)	(200)	(252)	—	(526)
Carrying amounts						
At 1 January 2018	—	—	133	119	29	281
At 31 December 2018	—	—	122	97	18	237
At 31 December 2019	402	7	100	73	36	618

Notes to the consolidated financial statements

10. Property, plant and equipment continued

Depreciation expense of £42m (2018: £18m) has been included in the income statement in cost of goods sold and £81m (2018: £48m) in operating expenses.

Prior to 1 January 2019 the Group leased certain equipment under a number of finance lease agreements. The net carrying amount of leased plant and equipment included within property, plant and equipment in 2018 was £7m. On the initial application of IFRS 16 these finance leases have been transferred from owned assets to right-of-use assets within property, plant and equipment.

11. Intangible assets

All figures in £ millions	Goodwill	Software	Acquired customer lists, contracts and relationships	Acquired trademarks and brands	Acquired publishing rights	Other intangibles acquired	Total
Cost							
At 1 January 2018	2,030	882	889	281	184	489	4,755
Exchange differences	74	32	39	(2)	—	1	144
Additions – internal development	—	124	—	—	—	—	124
Additions – purchased	—	6	—	—	—	—	6
Disposals	—	(94)	(18)	(12)	—	(33)	(157)
Disposal through business disposal	—	(2)	—	—	—	—	(2)
Transfer from property, plant and equipment	—	11	—	—	—	—	11
Transfer to assets classified as held for sale	7	—	—	—	—	—	7
At 31 December 2018	2,111	959	910	267	184	457	4,888
Exchange differences	(57)	(22)	(29)	(10)	(5)	(20)	(143)
Additions – internal development	—	137	—	—	—	—	137
Additions – purchased	—	1	—	—	—	—	1
Disposals	—	(15)	(88)	(19)	—	(47)	(169)
Acquisition through business combination	18	—	—	—	—	23	41
Transfer from property, plant and equipment	—	7	—	—	—	—	7
Transfer to intangible assets – pre-publication	—	(28)	—	—	—	—	(28)
Movement in held for sale	67	—	—	—	—	—	67
At 31 December 2019	2,139	1,039	793	238	179	413	4,801

Notes to the consolidated financial statements

11. Intangible assets continued

All figures in £ millions	Goodwill	Software	Acquired customer lists, contracts and relationships	Acquired trademarks and brands	Acquired publishing rights	Other intangibles acquired	Total
Amortisation							
At 1 January 2018	—	(493)	(580)	(180)	(178)	(360)	(1,791)
Exchange differences	—	(23)	(26)	1	2	(10)	(56)
Charge for the year	—	(88)	(59)	(14)	(2)	(24)	(187)
Disposals	—	92	18	12	—	33	155
At 31 December 2018	—	(512)	(647)	(181)	(178)	(361)	(1,879)
Exchange differences	—	16	22	7	4	19	68
Charge for the year	—	(115)	(51)	(23)	(2)	(75)	(266)
Disposals	—	10	88	19	—	46	163
Transfer from property, plant and equipment	—	(3)	—	—	—	—	(3)
Transfer to intangible assets – pre-publication	—	16	—	—	—	—	16
At 31 December 2019	—	(588)	(588)	(178)	(176)	(371)	(1,901)
Carrying amounts							
At 1 January 2018	2,030	389	309	101	6	129	2,964
At 31 December 2018	2,111	447	263	86	6	96	3,009
At 31 December 2019	2,139	451	205	60	3	42	2,900

Goodwill

The goodwill carrying value of £2,139m relates to acquisitions completed after 1 January 1998. Prior to 1 January 1998 all goodwill was written off to reserves on the date of acquisition. For acquisitions completed between 1 January 1998 and 31 December 2002, no value was ascribed to intangibles other than goodwill which was amortised over a period of up to 20 years. On adoption of IFRS on 1 January 2003, the Group chose not to restate the goodwill balance and at that date the balance was frozen (i.e. amortisation ceased). If goodwill had been restated, then a significant value would have been ascribed to other intangible assets, which would be subject to amortisation, and the carrying value of goodwill would be significantly lower. For acquisitions completed after 1 January 2003, value has been ascribed to other intangible assets which are amortised.

Other intangible assets

Other intangibles acquired include content, technology and software rights.

Intangible assets are valued separately for each acquisition and the primary method of valuation used is the discounted cash flow method. The majority of acquired intangibles are amortised using an amortisation profile based on the projected cash flows underlying the acquisition date valuation of the intangible asset, which generally results in a larger proportion of amortisation being recognised in the early years of the asset's life. The Group keeps the expected pattern of consumption under review.

Amortisation of £19m (2018: £18m) is included in the income statement in cost of goods sold and £182m (2018: £169m) in operating expenses. Impairment of £65m (2018: £nil), of which £53m relates to other intangibles acquired and £12m to acquired trademarks and brands, is included in operating expenses.

Notes to the consolidated financial statements

11. Intangible assets continued

Other intangible assets continued

The range of useful economic lives for each major class of intangible asset (excluding goodwill and software) is shown below:

<u>Class of intangible asset</u>	<u>2019</u> <u>Useful economic life</u>
Acquired customer lists, contracts and relationships	3-20 years
Acquired trademarks and brands	2-20 years
Acquired publishing rights	5-20 years
Other intangibles acquired	2-20 years

The expected amortisation profile of acquired intangible assets is shown below:

<u>All figures in £ millions</u>	<u>2019</u>			<u>Total</u>
	<u>One to five years</u>	<u>Six to ten years</u>	<u>More than ten years</u>	
Class of intangible asset				
Acquired customer lists, contracts and relationships	154	49	2	205
Acquired trademarks and brands	42	14	4	60
Acquired publishing rights	3	—	—	3
Other intangibles acquired	31	11	—	42

Impairment tests for cash-generating units (CGUs) containing goodwill

Impairment tests have been carried out where appropriate as described below. Goodwill was allocated to CGUs, or an aggregation of CGUs, where goodwill could not be reasonably allocated to individual business units. CGUs have been revised in 2019. Impairment reviews were conducted on these revised CGUs as summarised below:

2019 CGUs

<u>All figures in £ millions</u>	<u>2019</u> <u>Goodwill</u>
North American Courseware	—
OPM	18
Virtual Schools	386
Assessments	1,035
Core	700
Growth (includes the separate CGUs of Brazil, China, India and South Africa)	—
Total	<u>2,139</u>

Goodwill is tested at least annually for impairment. The recoverable amount of each aggregated CGU is based on the higher of value in use and fair value less costs of disposal. The value in use was higher than the fair value less costs of disposal in each of the CGUs. Other than goodwill there are no intangible assets with indefinite lives.

Notes to the consolidated financial statements

11. Intangible assets continued

2018 CGUs

<u>All figures in £ millions</u>	<u>2018</u>
North America	930
Core	701
Growth (includes the separate CGUs of Brazil, China, India and South Africa)	—
Pearson VUE	480
Total	<u>2,111</u>

Following a reassessment of the relative risk in the Brazil CGU compared to Pearson as a whole, it was determined in the course of the impairment review that neither the value in use nor the fair value less costs of disposal of the Brazil CGU supported the carrying value of the CGU. As the goodwill related to the Brazil CGU was fully impaired in prior years, the acquired intangibles of the Brazil CGU were impaired by £65m, bringing their carrying value to £27m. The Brazil CGU incorporates all the Group's trading operations in Brazil. A pre-tax discount rate of 16.3% was used to determine the value in use of the Brazil CGU. At 31 December 2018, the impairment review showed headroom of £20m in the Brazil CGU.

Determination of CGUs and reallocation of goodwill

Pearson identifies its CGUs based on its operating model and how data is collected and reviewed for management reporting and strategic planning purposes in accordance with IAS 36 "Impairment of assets". In 2019, the CGUs and aggregation of CGUs have been revised to take account of the following:

- The implementation of a new Enterprise Resource Planning (ERP) system in North America meant that ledgers are structured on a legal entity basis rather than the previous divisional basis. This has meant it is no longer possible to identify the carrying values of the Pearson VUE business separately from the wider Assessments business. As a result, the Pearson VUE business has been combined with the Assessments business as one CGU for impairment testing.
- The disposal of the US K12 Courseware business in 2019 has caused management to disaggregate the North America CGU.

At 1 January 2019, the goodwill of the previous North America and Pearson VUE CGUs was therefore reallocated between North American Courseware, OPM, Virtual Schools and Assessments, based on their relative fair value at 1 January 2019 amended to take into account previous impairments taken. No goodwill was allocated to the North American Courseware CGU reflecting the significant impairments taken in 2015 and 2016.

Key assumptions

For the purpose of estimating the value in use of the CGUs, management has used an income approach based on present value techniques. The calculations use cash flow projections based on financial budgets approved by management covering a three-year period, whilst a projection to 2030 was available and used for the OPM CGU, as the three-year projection reflected the investment phase and not the longer-term return of this business, and because the long-term nature of OPM's contracts allows for reliable forecasts to be prepared beyond three years. OPM relies on contracts with key customers and the forecast to 2030 assumes these are renewed or replaced. The key assumptions used by management in the value in use calculations were:

Discount rates – The discount rate is based on the risk-free rate for government bonds, adjusted for a risk premium to reflect the increased risk in investing in equities. The risk premium adjustment is assessed for each CGU. The average pre-tax discount rates range from 9.5% to 17% (2018: post-tax 7.9% to 15.8%). Discount rates are lower for those businesses which operate in more mature markets with low inflation and higher for those operating in emerging markets with higher inflation.

Notes to the consolidated financial statements

11. Intangible assets continued

Key assumptions continued

Perpetuity growth rates – A perpetuity growth rate of 2% (2018: 2%) was used for cash flows subsequent to the approved budget period for CGUs operating in mature markets. This perpetuity growth rate is a conservative rate and is considered to be lower than the long-term historical growth rates of the underlying territories in which the CGU operates and the long-term growth rate prospects of the sectors in which the CGU operates. CGU growth rates between 3.2% to 6.5% (2018: 3.0% and 6.5%) were used for cash flows subsequent to the approved budget period for CGUs operating in emerging markets with high inflation. These growth rates are also below the long-term historical growth rates in these markets.

The key assumptions used by management in setting the financial budgets were as follows:

Forecast sales growth rates – Forecast sales growth rates are based on past experience adjusted for the strategic direction and near-term investment priorities within each CGU. Key assumptions include growth in Online Program Management, Virtual Schools and Professional Certification, stabilisation in UK Qualifications and US Assessments, and ongoing pressures in the US Higher Education Courseware market. The sales forecasts use average nominal growth rates between (5%) and 11% (2018: 2% and 3%) for mature markets and between 5% and 11% (2018: (1)% and 12%) for emerging markets with high inflation.

Operating profits – operating profits are forecast based on historical experience of operating margins, adjusted for the impact of changes to product costs and the impact of the implementation of our 2017-2019 cost efficiency programme. Management applies judgement in allocating corporate costs in order to determine operating profit at a CGU level.

The table below shows the key assumptions for those CGUs for which the carrying value of goodwill is significant in comparison to the total carrying value of goodwill:

	<u>Discount rate</u>	<u>Perpetuity growth rate</u>
Virtual Schools	10%	2%
Core	10%	2%
Assessments	10%	2%

Comparative figures have not been shown as CGUs have been changed in 2019.

Sensitivities

Impairment testing for the year ended 31 December 2019 has identified the following CGUs, or groups of CGUs, as being sensitive to reasonably possible changes in key assumptions. The table below shows the headroom at 31 December 2019 and the changes in the key assumptions required in order for the recoverable amount to equal the carrying value.

	<u>Headroom at 31 December 2019</u>	<u>Discount rate</u>	<u>Discount rate for zero headroom</u>	<u>Perpetuity growth rate</u>	<u>Perpetuity growth rate for zero headroom</u>	<u>Contribution* reduction p.a. for zero headroom</u>
North American Courseware	£115m	10.0%	10.3%	2.0%	1.6%	£ 9m
OPM	£ 81m	10.0%	10.3%	2.0%	0.3%	£ 7m
Core	£191m	10.0%	10.7%	2.0%	1.2%	£15m
Brazil	—	16.3%	16.3%	4.1%	4.1%	—

* CGU contribution is operating profit excluding fixed costs and corporate overheads.

Notes to the consolidated financial statements

12. Investments in joint ventures and associates

The amounts recognised in the balance sheet are as follows:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Associates	7	392
Joint ventures	—	—
Associates classified as held for sale	397	—
Total	<u>404</u>	<u>392</u>

The amounts recognised in the income statement are as follows:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Associates	54	43
Joint ventures	—	1
Total	<u>54</u>	<u>44</u>

Investment in associates

The Group has the following material associates:

	<u>Principal place of business</u>	<u>Ownership interest</u>	<u>Nature of relationship</u>	<u>Measurement method</u>
Penguin Random House Ltd	UK/Global	25%	See below	Equity
Penguin Random House LLC	US	25%	See below	Equity

On 1 July 2013, Penguin Random House was formed, upon the completion of an agreement between Pearson and Bertelsmann to merge their respective trade publishing companies, Penguin and Random House, with the parent companies owning 47% and 53% of the combined business respectively. On 5 October 2017, Pearson sold a 22% stake in Penguin Random House to Bertelsmann, retaining a 25% share. Pearson owns its 25% interest in Penguin Random House via 25% interests in each of the two entities listed in the table above. Despite the separate legal structures of the two Penguin Random House entities, Pearson regards Penguin Random House as one combined global business. Pearson discloses Penguin Random House separately, presenting disclosures related to its interests in Penguin Random House on a combined basis.

The shareholder agreement includes protective rights for Pearson as the minority shareholder, including rights to dividends. Management considers ownership percentage, Board composition and the additional protective rights, and exercises judgement to determine that Pearson has significant influence over Penguin Random House and Bertelsmann has the power to direct the relevant activities and therefore control. Following the transaction in 2017 the assessment of significant influence did not change. Penguin Random House does not have a quoted market price.

In December 2019, the Group announced the sale of its remaining 25% interest in Penguin Random House. At the end of 2019 the Group's share of the assets of Penguin Random House has been classified as held for sale on the balance sheet. (see note 32).

Notes to the consolidated financial statements

12. Investments in joint ventures and associates continued

Investment in associates continued

The summarised financial information of the material associate is detailed below:

	<u>2019</u>	<u>2018</u>
	<u>Penguin Random House</u>	<u>Penguin Random House</u>
All figures in £ millions		
Assets		
Non-current assets	1,346	1,043
Current assets	2,273	1,929
Liabilities		
Non-current liabilities	(1,357)	(1,104)
Current liabilities	(1,874)	(1,546)
Net assets	388	322
Sales	2,916	2,775
Profit for the year	205	185
Other comprehensive income/(expense)	(27)	13
Total comprehensive income	178	198
Dividends received from associate in relation to profits	63	67
Re-capitalisation dividends received from associate	—	50

The information above reflects the amounts presented in the financial statements of the associate, adjusted for fair value and similar adjustments. The tax on Penguin Random House LLC is settled by the partners. For the purposes of clear and consistent presentation, the tax has been shown in the associate line items in the consolidated income statement and consolidated balance sheet, recording the Group's share of profit after tax consistently for the Penguin Random House associates.

A reconciliation of the summarised financial information to the carrying value of the material associate is shown below:

	<u>2019</u>	<u>2018</u>
	<u>Penguin Random House</u>	<u>Penguin Random House</u>
All figures in £ millions		
Opening net assets	322	368
Adjustment on initial application of IFRS 16	(7)	—
Exchange differences	(9)	18
Profit for the year	205	185
Other comprehensive income/(expense)	(27)	13
Dividends, net of tax paid	(260)	(262)
Capital contribution	164	—
Closing net assets	388	322
Share of net assets	97	80
Goodwill	300	307
Carrying value of associate	397	387

Notes to the consolidated financial statements

12. Investments in joint ventures and associates continued

Investment in associates continued

Information on other individually immaterial associates is detailed below:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Profit/(loss) for the year	<u>3</u>	<u>(3)</u>
Total comprehensive (expense)/income	<u>3</u>	<u>(3)</u>

Transactions with material associates

From time to time the Group loans funds to Penguin Random House which are unsecured and interest is calculated based on market rates. The amount outstanding at 31 December 2019 was £49m (2018: £nil) and interest received was £1m (2018: £1m). The loans are provided under a working capital facility and fluctuate during the year.

The Group also has a current asset receivable of £16m (2018: £17m) from Penguin Random House arising from the provision of services. Included in other income (note 4) is £4m (2018: £3m) of service fees. In 2018 the Group received a further re-capitalisation dividend of £50m which was triggered by the Group's decision to sell a 22% stake in Penguin Random House in 2017.

Investment in joint ventures

Information on joint ventures, all of which are individually immaterial, is detailed below:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Profit for the year	<u>—</u>	<u>1</u>
Total comprehensive income	<u>—</u>	<u>1</u>

13. Deferred income tax

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Deferred income tax assets	<u>59</u>	60
Deferred income tax liabilities	<u>(48)</u>	(136)
Net deferred income tax	<u>11</u>	<u>(76)</u>

Substantially all of the deferred income tax assets are expected to be recovered after more than one year.

Deferred income tax assets and liabilities shall be offset when there is a legally enforceable right to offset current income tax assets with current income tax liabilities and where the deferred income taxes relate to the same fiscal authority. At 31 December 2019, the Group has unrecognised deferred income tax assets of £28m (2018: £31m) in respect of UK losses, £20m (2018: £28m) in respect of US losses and approximately £100m (2018: £90m) in respect of losses in other territories. The UK losses are capital losses. The US losses relate to federal and state taxes. Federal tax losses can be carried forward indefinitely; state tax losses have expiry periods of between five and 20 years. Other deferred tax assets of £25m (2018: £12m) have not been recognised.

Deferred tax assets of £41m (2018: £43m) have been recognised in countries that reported a tax loss in either the current or preceding year. The majority arises in Brazil in respect of tax deductible goodwill. It is considered more likely than not that there will be sufficient future taxable profits to realise these assets.

Notes to the consolidated financial statements

13. Deferred income tax continued

The recognition of the deferred income tax assets is supported by management's forecasts of the future profitability of the relevant countries. In some cases deferred income tax assets are forecast to be recovered through taxable profits over a period that exceeds five years. Management consider these forecasts are sufficiently reliable to support the recovery of the assets.

The movement in deferred income tax assets and liabilities during the year is as follows:

<u>All figures in £ millions</u>	<u>Trading losses</u>	<u>Returns provisions</u>	<u>Retirement benefit obligations</u>	<u>Deferred revenue</u>	<u>Goodwill and intangibles</u>	<u>Other</u>	<u>Total</u>
Deferred income tax assets/(liabilities)							
At 1 January 2018	9	34	(44)	42	(155)	64	(50)
Exchange differences	—	1	1	6	(16)	(5)	(13)
Income statement (charge)/benefit	11	(4)	(21)	20	(34)	(14)	(42)
Disposal through business disposal	—	—	—	—	—	16	16
Tax benefit in other comprehensive income ..	—	—	9	—	—	—	9
Tax benefit in equity	—	—	—	—	—	4	4
At 31 December 2018	20	31	(55)	68	(205)	65	(76)
Adjustment on initial application of IFRS 16 (see note 1b)	—	—	—	—	—	15	15
Exchange differences	(1)	(1)	(1)	(3)	6	(5)	(5)
Income statement benefit/(charge)	70	(10)	(4)	(24)	—	32	64
Tax benefit/(charge) in other comprehensive income	—	—	22	—	—	(4)	18
Tax charge in equity	—	—	—	—	—	(5)	(5)
At 31 December 2019	89	20	(38)	41	(199)	98	11

Other deferred income tax items include temporary differences in respect of share-based payments, provisions, depreciation, interest limitation and royalty advances.

As at 31 December 2019, no deferred tax assets or liabilities were classified as held for sale (2018: £98m asset). In 2018 there was a charge of £8m relating to assets and liabilities held for sale.

Notes to the consolidated financial statements

14. Classification of financial instruments

The accounting classification of each class of the Group's financial assets, and their carrying values, is as follows:

All figures in £ millions	Notes	2019					2018				
		Fair value		Amortised cost		Total carrying value	Fair value		Amortised cost		Total carrying value
		FVOCI	FVTPL	Fair value – hedging instrument	Financial assets		FVOCI	FVTPL	Fair value – hedging instrument	Financial assets	
Investments in unlisted securities	15	122	—	—	—	122	93	—	—	—	93
Cash and cash equivalents	17	—	—	—	437	437	—	—	—	568	568
Derivative financial instruments	16	—	6	48	—	54	—	4	64	—	68
Trade receivables	22	—	—	—	918	918	—	—	—	904	904
Other receivable		—	182	—	—	182	—	—	—	—	—
Trade receivables – within assets classified as held for sale		—	—	—	—	—	—	—	—	49	49
Total financial assets		122	188	48	1,355	1,713	93	4	64	1,521	1,682

The carrying value of the Group's financial assets is equal to, or approximately equal to, the market value. The other receivable relates to the receivable which arose on the disposal of the US K12 Courseware business and is included in other receivables, non-current and current, in note 22.

The accounting classification of each class of the Group's financial liabilities, together with their carrying values and market values, is as follows:

All figures in £ millions	Notes	2019					2018						
		Fair value		Amortised cost		Total carrying value	Total market value	Fair value		Amortised cost		Total carrying value	Total market value
		FVTPL	Fair value – hedging instrument	Other financial liabilities	Financial liabilities			FVTPL	Fair value – hedging instrument	Other financial liabilities	Financial liabilities		
Derivative financial instruments	16	(7)	(32)	—	(39)	(39)	—	(59)	—	(59)	(59)		
Trade payables	24	—	—	(358)	(358)	(358)	—	—	(311)	(311)	(311)		
Trade payables – within liabilities classified as held for sale		—	—	—	—	—	—	—	(22)	(22)	(22)		
Bank loans and overdrafts	18	—	—	(3)	(3)	(3)	—	—	(43)	(43)	(43)		
Other borrowings due within one year	18	—	—	(89)	(89)	(89)	—	—	(3)	(3)	(3)		
Borrowings due after more than one year	18	—	—	(1,572)	(1,572)	(1,574)	—	—	(674)	(674)	(663)		
Total financial liabilities		(7)	(32)	(2,022)	(2,061)	(2,063)	—	(59)	(1,053)	(1,112)	(1,101)		

The market value of leases has been stated at book value.

Notes to the consolidated financial statements

14. Classification of financial instruments continued

Fair value measurement

As shown above, the Group's derivative assets and liabilities, unlisted securities and marketable securities are held at fair value. Financial instruments that are measured subsequently to initial recognition at fair value are grouped into levels 1 to 3, based on the degree to which the fair value is observable, as follows:

Level 1 fair value measurements are those derived from unadjusted quoted prices in active markets for identical assets or liabilities.

Level 2 fair value measurements are those derived from inputs, other than quoted prices included within level 1, that are observable for the asset or liability, either directly (as prices) or indirectly (derived from prices).

Level 3 fair value measurements are those derived from valuation techniques that include inputs for the asset or liability that are not based on observable market data (unobservable inputs).

The Group's bonds valued at £595m (2018: £661m) are classified as level 1. The Group's derivative assets valued at £54m (2018: £68m) and derivative liabilities valued at £39m (2018: £59m) are classified as level 2. The Group's investments in unlisted securities are valued at £122m (2018: £93m) and holding in other receivable is valued at £182m (2018: £nil); both are classified as level 3.

The following table analyses the movements in level 3 fair value remeasurements:

<u>All figures in £ millions</u>	<u>2019</u>			<u>2018</u>
	<u>Other receivable</u>	<u>Investments in unlisted securities</u>	<u>Total</u>	<u>Investments in unlisted securities</u>
At beginning of year	—	93	93	77
Exchange differences	1	(3)	(2)	4
Acquisition of investments and other receivable	181	12	193	13
Fair value movements	—	20	20	7
Disposal of investments	—	—	—	(8)
At end of year	182	122	304	93

The fair value of the investments in unlisted securities is determined by reference to the financial performance of the underlying asset, recent funding rounds and amounts realised on the sale of similar assets.

The fair value of the other receivable, which arose on the disposal of the US K12 Courseware business, is determined using present value techniques whereby the expected value of future cash flows is discounted using a rate which is representative of the creditworthiness of the US K12 Courseware business. The key inputs used in the present value calculations are forecast sales, discount rate and the expected date of a subsequent sale of the US K12 Courseware business. If the forecast sales used in the calculations were increased/ decreased by 5%, the value of the receivable would increase/decrease by approximately £20m. If the discount rate used in the calculations of 3.25% was increased/decreased by 1%, the value of the receivable would decrease/increase by approximately £5m. The calculations are not materially sensitive to reasonable changes in the expected date of a subsequent sale of the K12 business.

Notes to the consolidated financial statements

15. Other financial assets

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
At beginning of year	93	77
Exchange differences	(3)	4
Acquisition of investments	12	13
Fair value movements	20	7
Disposal of investments	—	(8)
At end of year	<u>122</u>	<u>93</u>

Other financial assets include unlisted securities of £122m (2018: £93m) that are classified at fair value through other comprehensive income (FVOCI). The assets, which are not held for trading, relate to the Group's interests in new and innovative educational ventures across the world. These are strategic investments and the Group considers the classification as FVOCI to be more relevant. None of the investments are individually significant to the financial statements. In 2018, equities held at a fair value of £8m were disposed. The cumulative gain on disposal was £nil and £2m was recycled from the fair value reserve to retained earnings.

16. Derivative financial instruments and hedge accounting

The Group's approach to the management of financial risks is set out in note 19. The Group's outstanding derivative financial instruments are as follows:

<u>All figures in £ millions</u>	<u>2019</u>			<u>2018</u>		
	<u>Gross notional amounts</u>	<u>Assets</u>	<u>Liabilities</u>	<u>Gross notional amounts</u>	<u>Assets</u>	<u>Liabilities</u>
Interest rate derivatives – in a fair value hedge relationship	336	13	—	404	13	—
Interest rate derivatives – not in a hedge relationship	557	2	(6)	362	3	—
Cross-currency rate derivatives – in a hedge relationship ..	502	29	(31)	577	51	(35)
FX derivatives – in a hedge relationship	555	6	(1)	434	—	(24)
FX derivatives – not in a hedge relationship	386	4	(1)	473	1	—
Total	<u>2,336</u>	<u>54</u>	<u>(39)</u>	<u>2,250</u>	<u>68</u>	<u>(59)</u>
Analysed as expiring:						
In less than one year	1,167	25	(15)	771	1	(23)
Later than one year and not later than five years	694	13	(6)	795	22	(1)
Later than five years	475	16	(18)	684	45	(35)
Total	<u>2,336</u>	<u>54</u>	<u>(39)</u>	<u>2,250</u>	<u>68</u>	<u>(59)</u>

The Group's treasury policies only allow derivatives to be traded where the objective is risk mitigation. These are then designated for hedge accounting using the following criteria:

- If the derivative and the underlying hedged exposure would normally be revalued through the income statement and valuation changes are expected to be perfectly or near perfectly equal and opposite, these will not be classified in a hedge relationship.
- Where interest rate and cross currency interest rate swaps are used to convert fixed rate debt to floating and we expect to receive inflows equal to the fixed rate debt interest, these are classified as fair value hedges.
- Where derivatives are used to create a future foreign currency liability to provide protection against currency movements affecting the valuation of an overseas investment, these are designated as a net investment hedge.

Notes to the consolidated financial statements

16. Derivative financial instruments and hedge accounting continued

The Group's fixed rate USD debt is held as fixed rate instruments at amortised cost.

The majority of the Group's fixed rate euro debt is converted to a floating rate exposure using interest rate and cross-currency swaps. The Group receives interest under its euro debt related swap contracts to match the interest on the bonds (ranging from a receipt of 1.375% on its euro 2025 notes to 1.875% on its euro 2021 notes) and, in turn, pays either a floating US dollar or sterling variable rates of GBP Libor + 0.81% and US Libor + 1.36%.

GBP and USD Interest rate swaps are subsequently used to fix an element of the interest charge. The all-in rates (including the spread above Libor) that the Group pays are between 2.2% and 3.6%. In addition to this the Group has executed additional interest rate swaps to offset the floating rate borrowings paying between 0.83% and 2.1%. At 31 December 2019, the Group had interest rate swap contracts to fix £557m of debt and a further £246m of outstanding fixed rate bonds bringing the total fixed rate debt to £803m. These fixed interest rate derivatives are not in designated hedging relationships. Additionally the Group uses FX derivatives including forwards, collars and cross currency swaps to create synthetic USD debt as a hedge of its USD assets and to achieve certainty of USD currency conversion rates, in line with the Group's FX hedging policy. Outstanding contracts as at 31 December 2019 were held at an average GBP/USD rate of 1.34. These derivatives are in designated net investment hedging relationships. The weighted average rate achieved for the bonds in a net investment hedge relationship was GBP/USD 1.59 for the USD bonds and EUR/GBP 0.86 for the euro bonds. Outstanding contracts on the cross currency swaps at 31 December 2019 were held at an average EUR/GBP rate of 0.79. These derivatives are in designated fair value hedging relationships.

At the end of 2019, the currency split of the mark-to-market values of rate derivatives, including the exchange of principal on cross currency rate derivatives, was US dollar £(167)m, sterling £(166)m and euro £336m (2018: US dollar £(185)m, sterling £(215)m and euro £432m).

The Group's portfolio of rate derivatives is diversified by maturity, counterparty and type. Natural offsets between transactions within the portfolio and the designation of certain derivatives as hedges significantly reduce the risk of income statement volatility. The sensitivity of the portfolio to changes in market rates is set out in note 19.

Fair value hedges

The Group uses Interest Rate Swaps and Cross Currency Swaps as Fair value hedges of the Groups euro issued debt.

Interest rate exposure arises from movements in the fair value of the Group's euro debt attributable to movements in euro interest rates. The hedged risk is the change in the euro bonds fair value attributable to interest rate movements. The hedged items are the Group's euro bonds which are issued at a fixed rate. The hedging instruments are fixed to floating euro interest rate swaps where the Group receives fixed interest payments and pays three month Euribor.

As the critical terms of the interest rate swaps match the bonds, there is an expectation that the value of the hedging instrument and the value of the hedged item will move in the opposite direction as a result of movements in the zero coupon Euribor curve. The hedge ratio is therefore expected to be 100%. Sources of hedge ineffectiveness are a reduction or modification in the hedged item or a material change in the credit risk of swap counterparties.

Notes to the consolidated financial statements

16. Derivative financial instruments and hedge accounting continued

Fair value hedges continued

A foreign currency exposure arises from foreign exchange fluctuations on translation of the Group's euro debt into GBP. The hedged risk is the risk of changes in the GBPEUR spot rate that will result in changes in the value of the euro debt when translated into GBP. The hedged items are a portion of the Group's euro bonds. The hedging instruments are floating to floating cross currency swaps which creates an exposure to euro strengthening against GBP within the hedge item. The final exchange on the cross currency swap creates an exposure to euro weakening against GBP.

As the critical terms of the cross currency swap match the bonds there is an expectation that the value of the hedging instrument and the value of the hedged item move in the opposite direction as a result of movements in the EURGBP exchange rate. The hedge ratio is 100%. Sources of hedge ineffectiveness are a reduction or modification in the hedged item or a material change in the credit risk of swap counterparties.

The Group held the following instruments to hedge exposures to changes in interest rates and foreign currency risk associated with borrowings:

All figures in £ millions	2019		
	Carrying amount of hedging instruments	Change in fair value of hedging instrument used to determine hedge ineffectiveness	Nominal amounts of hedging instruments
Derivative financial instruments for interest rate risk	13	—	336
Derivative financial instruments for currency risk . . .	25	(21)	336

All figures in £ millions	2018		
	Carrying amount of hedging instruments	Change in fair value of hedging instrument used to determine hedge ineffectiveness	Nominal amounts of hedging instruments
Derivative financial instruments for interest rate risk	13	(7)	404
Derivative financial instruments for currency risk . . .	51	3	404

The amounts at the reporting date relating to items designated as hedge items were as follows:

All figures in £ millions	2019				
	Carrying amount of hedged items	Accumulated amount of fair value hedge adjustments on the hedged item included in the carrying amount	Change in fair value of hedged item used to determine hedge ineffectiveness	Hedge ineffectiveness	Line item in profit or loss that includes hedge ineffectiveness
Interest rate risk					
Financial liabilities					
– borrowings . . .	(347)	(9)	—	—	n/a
Currency risk					
Financial liabilities					
– borrowings . . .	(347)	n/a	21	—	n/a

Notes to the consolidated financial statements

16. Derivative financial instruments and hedge accounting continued

Fair value hedges continued

All figures in £ millions	2018				
	Carrying amount of hedged items	Accumulated amount of fair value hedge adjustments on the hedged item included in the carrying amount	Change in fair value of hedged item used to determine hedge ineffectiveness	Hedge ineffectiveness	Line item in profit or loss that includes hedge ineffectiveness
Interest rate risk					
Financial liabilities					
– borrowings . . .	(416)	(9)	7	—	n/a
Currency risk					
Financial liabilities					
– borrowings . . .	(416)	n/a	(3)	—	n/a

Hedge of net investment in a foreign operation

A foreign currency exposure arises from the translation of the Group's net investments in its subsidiaries which have USD and euro functional currencies. The hedged risk is the risk of changes in the GBPUSD and GBPEUR spot rates that will result in changes in the value of the Group's net investment in its USD and euro assets when translated into GBP. The hedged items are a portion of the Group's assets which are denominated in USD and euro. The hedging instruments are debt and derivative financial instruments, including Cross Currency Swaps, FX Forwards and FX Collars which creates an exposure to USD and euro weakening against GBP.

It is expected that the change in value of each of these items will mirror each other as there is a clear and direct economic relationship between the hedge and the hedged item in the hedge relationship.

Hedge ineffectiveness would arise if the value of the hedged items fell below the value of the hedging instruments however this is unlikely as the value of the Group's assets denominated in USD and euro are significantly greater than the proposed net investment programme.

The amounts related to items designated as hedging instruments were as follows:

All figures in £ millions	2019				
	Carrying amount of hedged instruments	Change in value of hedging instrument used to determine hedge ineffectiveness	Nominal amounts of hedging instruments	Hedging gains/(losses) recognised in OCI	Hedge ineffectiveness recognised in profit or loss
Derivative financial instruments	(21)	13	(722)	13	—
Financial liabilities – borrowings	(246)	10	(246)	10	—
All figures in £ millions	2018				
	Carrying amount of hedged instruments	Change in value of hedging instrument used to determine hedge ineffectiveness	Nominal amounts of hedging instruments	Hedging gains/(losses) recognised in OCI	Hedge ineffectiveness recognised in profit or loss
Derivative financial instruments	(59)	(22)	(607)	(22)	—
Financial liabilities – borrowings	(256)	(10)	(256)	(10)	—

Notes to the consolidated financial statements

16. Derivative financial instruments and hedge accounting continued

Hedge of net investment in a foreign operation continued

In addition to the above, £3m of hedging gains were recognised in OCI in relation to derivative financial instruments that matured during the year. Included in the translation reserve is a cost of hedging reserve of £2m relating to the time value of FX collars which is not separately disclosed due to materiality.

Offsetting arrangements with derivative counterparties

All of the Group's derivative financial instruments are subject to enforceable netting arrangements with individual counterparties, allowing net settlement in the event of default of either party. Derivative financial assets and liabilities subject to offsetting arrangements are as follows:

<u>All figures in £ millions</u>	<u>2019</u>			<u>2018</u>		
	<u>Gross derivative assets</u>	<u>Gross derivative liabilities</u>	<u>Net derivative assets/liabilities</u>	<u>Gross derivative assets</u>	<u>Gross derivative liabilities</u>	<u>Net derivative assets/liabilities</u>
Counterparties in an asset position	<u>52</u>	<u>(34)</u>	<u>18</u>	67	(44)	23
Counterparties in a liability position	<u>2</u>	<u>(5)</u>	<u>(3)</u>	<u>1</u>	<u>(15)</u>	<u>(14)</u>
Total as presented in the balance sheet . .	<u>54</u>	<u>(39)</u>	<u>15</u>	<u>68</u>	<u>(59)</u>	<u>9</u>

All of the Group's derivative financial instruments are subject to enforceable netting arrangements with individual counterparties, allowing net settlement in the event of default of either party. Offset arrangements in respect of cash balances are described in note 17.

Counterparty exposure from all derivatives is managed, together with that from deposits and bank account balances, within credit limits that reflect published credit ratings and by reference to other market measures (e.g. market prices for credit default swaps) to ensure that there is no significant risk to any one counterparty.

The Group has no material embedded derivatives that are required to be separately accounted for in accordance with IFRS 9 'Financial Instruments'.

17. Cash and cash equivalents (excluding overdrafts)

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Cash at bank and in hand	<u>401</u>	533
Short-term bank deposits	<u>36</u>	<u>35</u>
	<u>437</u>	<u>568</u>

Short-term bank deposits are invested with banks and earn interest at the prevailing short-term deposit rates.

At the end of 2019, the currency split of cash and cash equivalents was US dollar 30% (2018: 18%), sterling 12% (2018: 30%), and other 58% (2018: 52%).

Notes to the consolidated financial statements

17. Cash and cash equivalents (excluding overdrafts) continued

Cash and cash equivalents have fair values that approximate to their carrying value due to their short-term nature. Cash and cash equivalents include the following for the purpose of the cash flow statement:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Cash and cash equivalents	437	568
Bank overdrafts	(3)	(43)
	<u>434</u>	<u>525</u>

The Group has certain cash pooling arrangements in US dollars, sterling, euro and Canadian dollars where both the company and the bank have a legal right of offset. Offsetting amounts are presented gross in the balance sheet. Offset arrangements in respect of derivatives are shown in note 16.

18. Financial liabilities – borrowings

The Group's current and non-current borrowings are as follows:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Non-current		
1.875% euro notes 2021 (nominal amount €195m; 2018 nominal amount €250m)	170	233
3.75% US dollar notes 2022 (nominal amount \$117m)	89	92
3.25% US dollar notes 2023 (nominal amount \$94m)	72	74
1.375% euro notes 2025 (nominal amount €300m)	262	273
Revolving credit facility	230	—
Lease liabilities (see note 35)	749	2
	<u>1,572</u>	<u>674</u>
Current		
Due within one year or on demand:		
Bank loans and overdrafts	3	43
Lease liabilities (see note 35)	89	3
	<u>92</u>	<u>46</u>
Total borrowings	<u>1,664</u>	<u>720</u>

Included in the non-current borrowings above is £5m of accrued interest (2018: £6m). Included in the current borrowings above is £nil of accrued interest (2018: £nil).

Prior to 1 January 2019 the Group leased certain equipment under a number of finance lease agreements which were included within Financial liabilities – borrowings. On the application of IFRS 16 at 1 January 2019 (see note 1b) all lease liabilities are now included within Financial liabilities – borrowings.

The maturities of the Group's non-current borrowings are as follows:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Between one and two years	251	1
Between two and five years	609	400
Over five years	712	273
	<u>1,572</u>	<u>674</u>

Notes to the consolidated financial statements

18. Financial liabilities – borrowings continued

The carrying amounts and market values of borrowings are as follows:

<u>All figures in £ millions</u>	2019			2018		
	Effective interest rate	Carrying value	Market value	Effective interest rate	Carrying value	Market value
Bank loans and overdrafts	n/a	3	3	n/a	43	43
1.875% euro notes 2021	2.04%	170	170	2.04%	233	233
3.75% US dollar notes 2022	3.94%	89	90	3.94%	92	91
3.25% US dollar notes 2023	3.36%	72	72	3.36%	74	71
1.375% euro notes 2025	1.44%	262	263	1.44%	273	266
Revolving credit facility	1.075%	230	230	—	—	—
Lease liabilities	n/a	838	838	n/a	5	5
		<u>1,664</u>	<u>1,666</u>		<u>720</u>	<u>709</u>

The market values stated above are based on clean market prices at the year end or, where these are not available, on the quoted market prices of comparable debt issued by other companies. The effective interest rates above relate to the underlying debt instruments.

The carrying amounts of the Group's borrowings before the effect of derivatives (see notes 16 and 19 for further information on the impact of derivatives) are denominated in the following currencies:

<u>All figures in £ millions</u>	2019	2018
US dollar	539	188
Sterling	576	23
Euro	442	506
Other	107	3
	<u>1,664</u>	<u>720</u>

The Group has \$0.9bn (£0.7bn) of undrawn capacity on its committed borrowing facilities as at 31 December 2019 (2018: \$1.75bn (£1.4bn) undrawn). In addition, there are a number of short-term facilities that are utilised in the normal course of business. All of the Group's borrowings are unsecured. In respect of lease obligations, the rights to the leased asset revert to the lessor in the event of default.

19. Financial risk management

The Group's approach to the management of financial risks together with sensitivity analyses of its financial instruments is set out below.

Treasury policy

Pearson's treasury policies set out the Group's principles for addressing key financial risks including capital risk, liquidity risk, foreign exchange risk and interest rate risk, and sets out measurable targets for each. The Audit Committee receives quarterly reports incorporating compliance with measurable targets and review, and approve, any changes to treasury policies annually.

The treasury function is permitted to use derivatives where their use reduces a risk or allows a transaction to be undertaken more cost effectively. Derivatives permitted include swaps, forwards and collars to manage foreign exchange and interest rate risk, with foreign exchange swap and forward contracts the most commonly executed. Speculative transactions are not permitted.

Notes to the consolidated financial statements

19. Financial risk management continued

Capital risk

The Group's objectives when managing capital are:

- To maintain a strong balance sheet and a solid investment grade rating;
- To continue to invest in the business organically and through acquisitions;
- To have a sustainable and progressive dividend policy, and;
- To return surplus cash to our shareholders where appropriate.

The Group aimed to maintain net debt at a level less than 1.5 times adjusted EBITDA before the adoption of IFRS 16 and less than 2.2 times adjusted EBITDA after the adoption of IFRS 16. This is consistent with a solid investment-grade rating (assuming no material deterioration in trading performance) and provides comfortable headroom against covenants.

At 31 December 2019 the Group was rated BBB (negative outlook) with Standard and Poor's and Baa2 (stable outlook) with Moody's.

Net debt

The Group's net debt position is set out below:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Cash and cash equivalents	437	568
Derivative financial instruments	15	9
Bank loans and overdrafts	(3)	(43)
Bonds	(593)	(672)
Revolving credit facility	(230)	—
Investment in finance lease receivable	196	—
Lease liabilities	(838)	(5)
Net debt	<u>(1,016)</u>	<u>(143)</u>

Interest and foreign exchange rate management

The Group's principal currency exposure is to the US dollar which represents more than 60% of the Group's sales.

The Group's long-term debt is primarily held in US dollars to provide a natural hedge of this exposure, which is achieved through issued US dollar debt or converting euro debt to US dollars using cross-currency swaps, forwards and collars. As at 31 December 2019, £1,641m of the Group's debt is held at fixed rates (2018: £674m), with £23m held at floating rates (2018: £103m), partially offset by US dollar cash balances which attract floating rate interest.

See note 16 for details of the Group's hedging programme which addresses interest rate risk and foreign currency risk.

Overseas profits are converted to sterling to satisfy sterling cash outflows such as dividends at the prevailing spot rate at the time of the transaction. To the extent the Group has sufficient sterling, US dollars may be held as dollar cash to provide a natural offset to the Group's debt or to satisfy future US dollar cash outflows.

Notes to the consolidated financial statements

19. Financial risk management continued

Interest and foreign exchange rate management continued

The Group does not have significant cross-border foreign exchange transactional exposures.

As at 31 December 2019, the sensitivity of the carrying value of the Group's financial instruments to fluctuations in interest rates and exchange rates is as follows:

All figures in £ millions	2019				
	Carrying value	Impact of 1% increase in interest rates	Impact of 1% decrease in interest rates	Impact of 10% strengthening in sterling	Impact of 10% weakening in sterling
Investments in unlisted securities	122	—	—	(9)	11
Other receivable	182	—	—	(17)	20
Cash and cash equivalents	437	—	—	(32)	39
Derivative financial instruments	15	16	(18)	22	(23)
Bonds	(593)	11	(12)	53	(64)
Other borrowings	(1,071)	2	(2)	46	(56)
Other net financial assets	560	—	—	(43)	52
Total financial instruments	(348)	29	(32)	20	(21)

All figures in £ millions	2018				
	Carrying value	Impact of 1% increase in interest rates	Impact of 1% decrease in interest rates	Impact of 10% strengthening in sterling	Impact of 10% weakening in sterling
Investments in unlisted securities	93	—	—	(7)	9
Cash and cash equivalents	568	—	—	(36)	45
Derivative financial instruments	9	(3)	3	1	(1)
Bonds	(672)	17	(17)	61	(74)
Other borrowings	(48)	—	—	2	(3)
Other net financial assets	620	—	—	(51)	62
Total financial instruments	570	14	(14)	(30)	38

The table shows the sensitivities of the fair values of each class of financial instrument to an isolated change in either interest rates or foreign exchange rates. Other net financial assets comprises trade receivables less trade payables. A significant proportion of the movements shown above would impact equity rather than the income statement due to the location and functional currency of the entities in which they arise and the availability of net investment hedging.

The Group's income statement is reported at average rates for the year while the balance sheet is translated at the year-end closing rate. Differences between these rates can distort ratio calculations such as debt to EBITDA and interest cover. Adjusted operating profit translated at year-end closing rates would be £22m lower than the reported figure of £581m at £559m. Adjusted EBITDA translated at year-end closing rates would be £26m lower than the reported figure of £804m at £778m.

Liquidity and re-financing risk management

The Group regularly reviews the level of cash and debt facilities required to fund its activities. This involves preparing a prudent cash flow forecast for the next three to five years, determining the level of debt facilities required to fund the business, planning for shareholder returns and repayments of maturing debt, and identifying an appropriate amount of headroom to provide a reserve against unexpected outflows.

Notes to the consolidated financial statements

19. Financial risk management continued

Liquidity and re-financing risk management continued

At 31 December 2019, the Group had cash of £0.4bn and an outstanding drawing of £230m on the US dollar denominated revolving credit facility due 2024 of \$1.19bn (£0.9bn).

The \$1.19bn facility contains interest cover and leverage covenants which the Group has complied with for the year ended 31 December 2019. The maturity of the carrying values of the Group's borrowings and trade payables are set out in notes 18 and 24 respectively.

At the end of 2019, the currency split of the Group's trade payables was US dollar £214m, sterling £57m and other currencies £87m (2018: US dollar £178m, sterling £57m and other currencies £98m). Trade payables are all due within one year (2018: all due within one year).

The table opposite analyses the Group's bonds and derivative assets and liabilities into relevant maturity groupings based on the remaining period at the balance sheet date to the contractual maturity date. Short dated derivative instruments have not been included in this table. The amounts disclosed in the table are the contractual undiscounted cash flows (including interest) and as such may differ from the amounts disclosed on the balance sheet.

Financial counterparty and credit risk management

Financial counterparty and credit risk arises from cash and cash equivalents, favourable derivative financial instruments and deposits with banks and financial institutions, as well as credit exposures to customers, including outstanding receivables. Counterparty credit limits, which take published credit rating and other factors into account, are set to cover the Group's total aggregate exposure to a single financial institution. The limits applicable to published credit rating bands are approved by the Chief Financial Officer within guidelines approved by the Board. Exposures and limits applicable to each financial institution are reviewed on a regular basis.

All figures in £ millions	Analysed by maturity			Analysed by currency				
	Greater than one month and less than one year	Later than one year but less than five years	Five years or more	Total	USD	GBP	Other	Total
At 31 December 2019								
Bonds	12	354	259	625	177	—	448	625
Rate derivatives – inflows	(19)	(223)	(332)	(574)	(41)	(172)	(361)	(574)
Rate derivatives – outflows	23	237	331	591	242	344	5	591
FX forwards – inflows	(186)	(24)	—	(210)	—	(210)	—	(210)
FX forwards – outflows	186	23	—	209	209	—	—	209
Total	16	367	258	641	587	(38)	92	641
At 31 December 2018								
Bonds	14	431	277	722	189	—	533	722
Rate derivatives – inflows	(20)	(288)	(343)	(651)	(40)	(167)	(444)	(651)
Rate derivatives – outflows	23	289	341	653	254	390	9	653
FX forwards – inflows	(251)	(35)	—	(286)	—	(286)	—	(286)
FX forwards – outflows	275	37	—	312	312	—	—	312
Total	41	434	275	750	715	(63)	98	750

Notes to the consolidated financial statements

19. Financial risk management continued

Financial counterparty and credit risk management continued

Cash deposits and derivative transactions are made with approved counterparties up to pre-agreed limits. To manage counterparty risk associated with cash and cash equivalents, the Group uses a mixture of money market funds as well as bank deposits. As at 31 December 2019, 84% of cash and cash equivalents was held with investment grade bank counterparties, 12% with AAA money market funds and 4% held with non-investment grade bank counterparties.

For trade receivables and contract assets the Group's exposure to credit risk is influenced mainly by the individual characteristics of each customer. However, risk associated with the industry and country in which customers operate may also influence the credit risk. The credit quality of customers is assessed by taking into account financial position, past experience and other relevant factors. Individual credit limits are set for each customer based on internal ratings. The compliance with credit limits is regularly monitored by the Group. A default on a trade receivable is when the counterparty fails to make contractual payments within the stated payment terms. Trade receivables and contract assets are written off when there is no reasonable expectation of recovery. The carrying amounts of financial assets, trade receivables and contract assets represent the maximum credit exposure.

Trade receivables and contract assets are subject to impairment using the expected credit loss model. The Group applies the IFRS 9 simplified approach to measuring expected credit losses which uses a lifetime expected credit loss allowance for all trade receivables and contract assets. To measure the expected credit losses, trade receivables and contract assets have been grouped based on shared credit risk characteristics and the days past due. See note 22 for further details about trade receivables and contract assets including movements in provisions for bad and doubtful debts.

Change of accounting policy: Amendments to IFRS 9 and IFRS 7

Pearson has considered the impact of IBOR reform on Pearson's hedge accounting. The Group has elected to early adopt the 'Amendments to IFRS 9, and IFRS 7 Interest Rate Benchmark Reform' issued in September 2019. In accordance with the transition provisions, the amendments have been adopted retrospectively to hedging relationships that existed at the start of the reporting period or were designated thereafter. The amendments provide temporary relief from applying specific hedge accounting requirements to hedging relationships directly affected by IBOR reform.

The reliefs have the effect that IBOR reform should not generally cause hedge accounting to terminate. However, any hedge ineffectiveness continue should be recorded in the income statement. Furthermore, the amendments set out triggers for when the reliefs will end, which include the uncertainty arising from interest rate benchmark reform no longer being present.

Pearson has a limited exposure to changes in the EUR IBOR benchmark. The Group has €395m (£336m) of Interest Rate Swaps which are in fair value hedge relationships of €395m (£336m). Pearson has considered a IBOR transition plan. Pearson currently anticipates that the areas of greatest change will be amendments to the contractual terms of EUR-IBOR-referenced floating-rate swaps, and updating hedge designations

In summary, the reliefs provided by the amendments that apply to the Group are:

- In assessing whether the hedge is expected to be highly effective on a forward-looking basis, the Group has assumed that the Euribor interest rate on which the cash flows of the interest rate swap that hedges fixed-rate Euro bonds is not altered by IBOR reform.

Notes to the consolidated financial statements

19. Financial risk management continued

Change of accounting policy: Amendments to IFRS 9 and IFRS 7 continued

- The Group will not discontinue hedge accounting during the period of IBOR-related uncertainty solely because the retrospective effectiveness demonstrates ineffectiveness due to IBOR reform. The Group has assessed whether the hedged Euribor risk component is a separately identifiable risk only when it first designates the hedge and not on an ongoing basis

20. Intangible assets – pre-publication

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Cost		
At beginning of year	2,096	1,854
Exchange differences	(66)	70
Additions	306	328
Disposals	(82)	(158)
Transfer from property, plant and equipment	9	2
Transfer from intangible assets	12	—
At end of year	2,275	2,096
Amortisation		
At beginning of year	(1,279)	(1,113)
Exchange differences	53	(53)
Charge for the year	(261)	(271)
Disposals	82	158
At end of year	(1,405)	(1,279)
Carrying amounts at end of year	870	817

Included in the above are pre-publication assets amounting to £585m (2018: £577m) which will be realised in more than one year.

Amortisation is included in the income statement in cost of goods sold.

In addition to the above, in 2019 there was a £10m charge and additions of £13m relating to assets and liabilities held for sale. In 2018 £242m of pre-publication assets were included in assets classified as held for sale (see note 32) with a charge of £67m and additions of £60m in 2018 related to assets and liabilities held for sale.

21. Inventories

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Raw materials	5	5
Work in progress	2	—
Finished goods	155	149
Returns asset	7	10
	<u>169</u>	<u>164</u>

The cost of inventories recognised as an expense and included in the income statement in cost of goods sold amounted to £231m (2018: £375m). In 2019, £33m (2018: £39m) of inventory provisions was charged in the income statement. None of the inventory is pledged as security.

Notes to the consolidated financial statements

21. Inventories continued

Included within the inventory balance is the estimation of the right to receive goods from contracts with customers via returns. The value of the returns asset is measured at the carrying amount of the assets at the time of sale aligned to the Group's normal inventory valuation methodology less any expected costs to recover the asset and any expected reduction in value. Impairment charges against the inventory returns asset are £nil in 2019 (2018: £nil). The returns asset all relates to finished goods.

22. Trade and other receivables

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Current		
Trade receivables	903	874
Royalty advances	4	5
Prepayments	138	103
Investment in finance lease receivable	25	—
Deferred contract costs	—	1
Accrued income	11	2
Other receivables	194	193
	<u>1,275</u>	<u>1,178</u>
Non-current		
Trade receivables	15	30
Royalty advances	—	21
Prepayments	7	13
Investment in finance lease receivable	171	—
Deferred contract costs	—	1
Accrued income	5	10
Other receivables	115	25
	<u>313</u>	<u>100</u>

Accrued income represents contract assets which are unbilled amounts generally resulting from assessments and services revenue streams where revenue to be recognised over time has been recognised in excess of customer billings to date. Impairment charges on accrued income assets are £nil (2018: £nil). The carrying value of the Group's trade and other receivables approximates its fair value. Trade receivables are stated net of provisions for bad and doubtful debts.

The movements in the provision for bad and doubtful debts are as follows:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
At beginning of year	(96)	(116)
Adjustment on initial application of IFRS 9	—	(12)
Exchange differences	3	2
Income statement movements	(35)	(1)
Utilised	36	31
At end of year	<u>(92)</u>	<u>(96)</u>

Concentrations of credit risk with respect to trade receivables are limited due to the Group's large number of customers, who are internationally dispersed.

Notes to the consolidated financial statements

22. Trade and other receivables continued

The ageing of the Group's trade receivables is as follows:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Within due date	654	606
Up to three months past due date	155	172
Three to six months past due date	35	72
Six to nine months past due date	9	16
Nine to 12 months past due date	14	24
More than 12 months past due date	51	14
Net trade receivables	918	904

The Group reviews its bad debt provision at least twice a year following a detailed review of receivable balances and historical payment profiles, and assessment of forward looking risk factors. Management believes all the remaining receivable balances are fully recoverable.

23. Provisions for other liabilities and charges

<u>All figures in £ millions</u>	<u>Deferred consideration</u>	<u>Property</u>	<u>Disposals and closures</u>	<u>Legal and other</u>	<u>Total</u>
At 1 January 2019	42	102	5	16	165
Adjustment on initial application of IFRS 16 (see note 1b)	—	(101)	—	—	(101)
Exchange differences	(1)	—	—	(2)	(3)
Charged to income statement	—	10	—	67	77
Released to income statement	—	—	(5)	(15)	(20)
Utilised	(5)	(1)	—	(17)	(23)
Transfer from trade and other liabilities	—	6	—	—	6
Transfer to other liabilities	(36)	—	—	—	(36)
At 31 December 2019	—	16	—	49	65

Analysis of provisions:

<u>All figures in £ millions</u>	<u>2019</u>				
	<u>Deferred consideration</u>	<u>Property</u>	<u>Disposals and closures</u>	<u>Legal and other</u>	<u>Total</u>
Current	—	9	—	43	52
Non-current	—	7	—	6	13
	<u>—</u>	<u>16</u>	<u>—</u>	<u>49</u>	<u>65</u>
	<u>2018</u>				
Current	6	2	5	7	20
Non-current	36	100	—	9	145
	<u>42</u>	<u>102</u>	<u>5</u>	<u>16</u>	<u>165</u>

Deferred consideration primarily related to the formation of a venture in North America in 2011. This provision was reclassified to other liabilities during 2019.

Notes to the consolidated financial statements

23. Provisions for other liabilities and charges continued

Property provisions in 2018 predominantly related to restructuring and onerous leases. The main provisions related to the consolidation of London properties and were expected to be utilised from 2020. Uncertainties around property provisions related to prevailing market conditions including potential sublet income, lease terms including rent free periods, void periods, lease incentives and running costs. On the initial application of IFRS 16 (see note 1b) in 2019 onerous lease provisions have been offset against the relevant right-of-use asset. Property provisions in 2019 relate to restructuring and dilapidation provisions.

Legal and other includes legal claims, contract disputes and potential contract losses with the provisions utilised as the cases are settled. Also included in legal and other are other restructuring provisions that are generally utilised within one year.

24. Trade and other liabilities

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Trade payables	358	311
Sales return liability	122	173
Social security and other taxes	13	16
Accruals	295	397
Deferred income	360	387
Interest payable	28	46
Other liabilities	188	225
	1,364	1,555
Less: non-current portion		
Accruals	—	15
Deferred income	55	66
Other liabilities	31	74
	86	155
Current portion	<u>1,278</u>	<u>1,400</u>

The carrying value of the Group's trade and other liabilities approximates its fair value. The deferred income balance comprises contract liabilities in respect of advance payments in assessment, testing and training businesses; subscription income in school and college businesses; and obligations to deliver digital content in future periods.

25. Retirement benefit and other post-retirement obligations

Background

The Group operates a number of defined benefit and defined contribution retirement plans throughout the world.

The largest plan is The Pearson Pension Plan (UK Group plan) in the UK, which is sectionalised to provide both defined benefit and defined contribution pension benefits. The defined benefit section was closed to new members from 1 November 2006. The defined contribution section, opened in 2003, is open to new and existing employees. Finally, there is a separate section within the UK Group plan set up for auto-enrolment. The defined benefit section of the UK Group plan is a final salary pension plan which provides benefits to members in the form of a guaranteed level of pension payable for life. The level of benefits depends on the length of service and final pensionable pay. The UK Group plan is funded with benefit payments from trustee-administered funds. The UK Group plan is administered in accordance with the Trust Deed and Rules in the interests of its beneficiaries by Pearson Group Pension Trustee Limited.

Notes to the consolidated financial statements

25. Retirement benefit and other post-retirement obligations continued

Background continued

At 31 December 2019, the UK Group plan had approximately 26,000 members, analysed in the following table:

<u>All figures in %</u>	<u>Active</u>	<u>Deferred</u>	<u>Pensioners</u>	<u>Total</u>
Defined benefit	—	20	33	53
Defined contribution	12	35	—	47
Total	12	55	33	100

The other major defined benefit plans are based in the US. These are also final salary pension plans which provide benefits to members in the form of a guaranteed pension payable for life, with the level of benefits dependent on length of service and final pensionable pay. The majority of the US plans are funded.

The Group also has several post-retirement medical benefit plans (PRMBs), principally in the US. PRMBs are unfunded but are accounted for and valued similarly to defined benefit pension plans.

The defined benefit schemes expose the Group to actuarial risks, such as life expectancy, inflation risks, and investment risk including asset volatility and changes in bond yields. The Group is not exposed to any unusual, entity-specific or plan-specific risks.

The defined contribution section of the UK Group plan operates a Reference Scheme Test (RST) pension underpin for its members. Where a member's fund value is insufficient to purchase the RST pension upon retirement, the UK Group plan is liable for the shortfall to cover the member's RST pension. A liability of £33m (2018: £23m) in respect of the underpin is included in the UK Group plan's defined benefit obligation, calculated as the present value of projected payments less the fund value. From 1 January 2018, members who have sufficient funds to purchase an RST pension are able to convert their fund value into a pension in the UK Group plan as an alternative to purchasing an annuity with an insurer. The Group does not recognise the assets and liabilities for members of the defined contribution section of the UK Group plan whose fund values are expected to be sufficient to purchase an RST pension without assistance from the UK Group plan. The defined contribution section of the UK Group plan had gross assets of £512m at 31 December 2019 (2018: £453m).

Assumptions

The principal assumptions used for the UK Group plan and the US PRMB are shown below. Weighted average assumptions have been shown for the other plans, which primarily relate to US pension plans.

<u>All figures in %</u>	<u>2019</u>			<u>2018</u>		
	<u>UK Group plan</u>	<u>Other plans</u>	<u>PRMB</u>	<u>UK Group plan</u>	<u>Other plans</u>	<u>PRMB</u>
Inflation	3.0	1.7	1.5	3.3	1.6	1.5
Rate used to discount plan liabilities	2.0	3.0	3.1	2.8	4.0	4.1
Expected rate of increase in salaries	3.5	2.9	3.0	3.8	2.9	3.0
Expected rate of increase for pensions in payment and deferred pensions	1.85 to 5.05	—	—	2.1 to 5.1	—	—
Initial rate of increase in healthcare rate	—	—	6.8	—	—	7.0
Ultimate rate of increase in healthcare rate	—	—	5.0	—	—	5.5

The UK discount rate is based on corporate bond yields adjusted to reflect the duration of liabilities.

The US discount rate is set by reference to a US bond portfolio matching model.

Notes to the consolidated financial statements

25. Retirement benefit and other post-retirement obligations continued

Assumptions continued

The inflation rate for the UK Group plan of 3% reflects the RPI rate. In line with changes to legislation in 2010, certain benefits have been calculated with reference to CPI as the inflationary measure and in these instances a rate of 2% has been used.

The expected rate of increase in salaries has been set at 3.5% for 2019.

For the UK Group plan, the mortality base table assumptions have been updated and are derived from the SAPS S2 for males and females, adjusted to reflect the observed experience of the plan, with CMI model improvement factors. A 1.5% long-term rate improvement on the CMI model is applied for both males and females.

For the US plans, the mortality table (Pri – 2012) and 2019 improvement scale (MP – 2019) with generational projection for male and female annuitants has been adopted.

Using the above tables, the remaining average life expectancy in years of a pensioner retiring at age 65 on the balance sheet date for the UK Group plan and US plans is as follows:

<u>All figures in years</u>	<u>UK</u>		<u>US</u>	
	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>
Male	24.0	23.8	20.6	20.7
Female	24.3	24.5	22.6	22.7

The remaining average life expectancy in years of a pensioner retiring at age 65, 20 years after the balance sheet date, for the UK and US Group plans is as follows:

<u>All figures in years</u>	<u>UK</u>		<u>US</u>	
	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>
Male	25.5	25.4	22.2	22.3
Female	26.1	26.3	24.1	24.2

Although the Group anticipates that plan surpluses will be utilised during the life of the plan to address member benefits, the Group recognises its pension surplus in full in respect of the UK Group plan on the basis that it is management's judgement that there are no substantive restrictions on the return of residual plan assets in the event of a winding up of the plan after all member obligations have been met.

Financial statement information

The amounts recognised in the income statement are as follows:

<u>All figures in £ millions</u>	<u>2019</u>					
	<u>UK Group plan</u>	<u>Defined benefit other</u>	<u>Sub-total</u>	<u>Defined contribution</u>	<u>PRMB</u>	<u>Total</u>
Current service cost	6	3	9	57	—	66
Past service cost	—	—	—	—	—	—
Curtailments	(2)	—	(2)	—	(1)	(3)
Administration expenses	6	—	6	—	—	6
Total operating expense	10	3	13	57	(1)	69
Interest on plan assets	(89)	(5)	(94)	—	—	(94)
Interest on plan liabilities	73	6	79	—	2	81
Net finance (income)/expense	(16)	1	(15)	—	2	(13)
Net income statement charge	(6)	4	(2)	57	1	56

Notes to the consolidated financial statements

25. Retirement benefit and other post-retirement obligations continued

Financial statement information continued

All figures in £ millions	2018					
	UK Group plan	Defined benefit other	Sub-total	Defined contribution	PRMB	Total
Current service cost	7	2	9	56	(1)	64
Past service cost	8	—	8	—	—	8
Curtailments	—	—	—	—	(11)	(11)
Administration expenses	6	—	6	—	—	6
Total operating expense	21	2	23	56	(12)	67
Interest on plan assets	(82)	(5)	(87)	—	—	(87)
Interest on plan liabilities	68	6	74	—	2	76
Net finance (income)/expense	(14)	1	(13)	—	2	(11)
Net income statement charge	7	3	10	56	(10)	56

All figures in £ millions	2017					
	UK Group plan	Defined benefit other	Sub-total	Defined contribution	PRMB	Total
Current service cost	8	1	9	57	(1)	65
Administration expenses	9	1	10	—	—	10
Total operating expense	17	2	19	57	(1)	75
Interest on plan assets	(84)	(5)	(89)	—	—	(89)
Interest on plan liabilities	77	7	84	—	2	86
Net finance (income)/expense	(7)	2	(5)	—	2	(3)
Net income statement charge	10	4	14	57	1	72

The amounts recognised in the balance sheet are as follows:

All figures in £ millions	2019				2018			
	UK Group plan	Other funded plans	Other unfunded plans	Total	UK Group plan	Other funded plans	Other unfunded plans	Total
Fair value of plan assets	3,341	120	—	3,461	3,240	141	—	3,381
Present value of defined benefit obligation	(2,912)	(138)	(19)	(3,069)	(2,671)	(158)	(19)	(2,848)
Net pension asset/(liability)	429	(18)	(19)	392	569	(17)	(19)	533
Other post-retirement medical benefit obligation				(43)				(49)
Other pension accruals				(12)				(13)
Net retirement benefit asset				337				471
Analysed as:								
Retirement benefit assets				429				571
Retirement benefit obligations				(92)				(100)

Notes to the consolidated financial statements

25. Retirement benefit and other post-retirement obligations continued

Financial statement information continued

The following gains/(losses) have been recognised in other comprehensive income:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Amounts recognised for defined benefit plans	(148)	16	175
Amounts recognised for post-retirement medical benefit plans	3	6	—
Total recognised in year	(145)	22	175

The fair value of plan assets comprises the following:

<u>All figures in %</u>	<u>2019</u>			<u>2018</u>		
	<u>UK Group plan</u>	<u>Other funded plans</u>	<u>Total</u>	<u>UK Group plan</u>	<u>Other funded plans</u>	<u>Total</u>
Insurance	43	—	43	28	1	29
Equities	1	1	2	1	1	2
Bonds	5	2	7	—	2	2
Property	5	—	5	7	—	7
Pooled asset investment funds	30	—	30	44	—	44
Other	13	—	13	16	—	16

The plan assets do not include any of the Group's own financial instruments, or any property occupied by the Group. The table below further disaggregates the plan assets into additional categories and those assets which have a quoted market price in an active market and those that do not:

<u>All figures in %</u>	<u>2019</u>		<u>2018</u>	
	<u>Quoted market price</u>	<u>No quoted market price</u>	<u>Quoted market price</u>	<u>No quoted market price</u>
Insurance	43	—	29	—
Non-UK equities	—	2	—	2
Fixed-interest securities	7	—	2	—
Property	—	5	—	7
Pooled asset investment funds	30	—	44	—
Other	—	13	—	16
Total	80	20	75	25

The liquidity profile of the UK Group plan assets is as follows:

<u>All figures in %</u>	<u>2019</u>	<u>2018</u>
Liquid – call <1 month	37	51
Less liquid – call 1–3 months	—	—
Illiquid – call >3 months	63	49

Notes to the consolidated financial statements

25. Retirement benefit and other post-retirement obligations continued

Financial statement information continued

Changes in the values of plan assets and liabilities of the retirement benefit plans are as follows:

All figures in £ millions	2019			2018		
	UK Group plan	Other plans	Total	UK Group plan	Other plans	Total
Fair value of plan assets						
Opening fair value of plan assets	3,240	141	3,381	3,337	155	3,492
Exchange differences	—	(5)	(5)	—	4	4
Interest on plan assets	89	5	94	82	5	87
Return on plan assets excluding interest	133	13	146	(45)	(13)	(58)
Contributions by employer	3	2	5	6	1	7
Benefits paid	(124)	(16)	(140)	(140)	(11)	(151)
Other	—	(20)	(20)	—	—	—
Closing fair value of plan assets	3,341	120	3,461	3,240	141	3,381
Present value of defined benefit obligation						
Opening defined benefit obligation	(2,671)	(177)	(2,848)	(2,792)	(181)	(2,973)
Exchange differences	—	5	5	—	(3)	(3)
Current service cost	(6)	(3)	(9)	(7)	(2)	(9)
Past service cost	—	—	—	(8)	—	(8)
Curtailments	2	—	2	—	—	—
Administration expenses	(6)	—	(6)	(6)	—	(6)
Interest on plan liabilities	(73)	(6)	(79)	(68)	(6)	(74)
Actuarial gains/(losses) – experience	(6)	(1)	(7)	(49)	(2)	(51)
Actuarial gains/(losses) – demographic	18	1	19	(12)	—	(12)
Actuarial gains/(losses) – financial	(294)	(12)	(306)	131	6	137
Contributions by employee	—	—	—	—	—	—
Other	—	20	20	—	—	—
Benefits paid	124	16	140	140	11	151
Closing defined benefit obligation	(2,912)	(157)	(3,069)	(2,671)	(177)	(2,848)

The weighted average duration of the defined benefit obligation is 16 years for the UK and 8 years for the US.

Changes in the value of the US PRMB are as follows:

All figures in £ millions	2019	2018
Opening defined benefit obligation	(49)	(67)
Exchange differences	1	(2)
Current service cost	—	1
Curtailments	1	11
Interest on plan liabilities	(2)	(2)
Actuarial gains/(losses) – experience	4	4
Actuarial gains/(losses) – demographic	1	—
Actuarial gains/(losses) – financial	(2)	2
Benefits paid	3	4
Closing defined benefit obligation	(43)	(49)

Notes to the consolidated financial statements

25. Retirement benefit and other post-retirement obligations continued

Funding

The UK Group plan is self-administered with the plan's assets being held independently of the Group in trust. The trustee of the plan is required to act in the best interest of the plan's beneficiaries. The most recent triennial actuarial valuation for funding purposes was completed as at 1 January 2018 and this valuation revealed a technical provisions funding surplus of £163m. The plan expects to be able to provide benefits (in accordance with the plan rules) with a very low level of reliance on future funding from the Group.

Assets of the plan are divided into two elements: matching assets, which are assets that produce cash flows that can be expected to match the cash flows for a proportion of the membership, and include a liability-driven investment mandate (UK bonds, interest rate/inflation swaps and other derivative instruments), pensioner buy-in insurance policies, inflation-linked property and infrastructure; and return seeking assets, which are assets invested with a longer-term horizon to generate the returns needed to provide the remaining expected cash flows for the beneficiaries, and include diversified growth funds, property and alternative asset classes. The plan's long-term investment strategy allocates 91.5% to matching assets and 8.5% to return-seeking assets.

In February 2019, the UK Group plan purchased a further pensioner buy-in policy valued at approximately £500m with Legal & General. This is in addition to the previous buy-in policies with Aviva and Legal & General totalling £1.2bn which were purchased in 2017. As a result of this latest transaction, 95% of the UK Group plan's pensioner liabilities are now matched with buy-in policies. These transfer significant longevity risk to Aviva and Legal & General, reducing the pension risks being underwritten by the Group and providing additional security for members.

Regular employer contributions to the plan in respect of the defined benefit sections are estimated to be £3m for 2020.

Sensitivities

The effect of a one percentage point increase and decrease in the discount rate on the defined benefit obligation and the total pension expense is as follows:

<u>All figures in £ millions</u>	2019	
	<u>1% increase</u>	<u>1% decrease</u>
Effect:		
(Decrease)/increase in defined benefit obligation – UK Group plan	(434)	591
(Decrease)/increase in defined benefit obligation – US plan	(11)	13

The effect of members living one year more or one year less on the defined benefit obligation is as follows:

<u>All figures in £ millions</u>	2019	
	<u>One year increase</u>	<u>One year decrease</u>
Effect:		
Increase/(decrease) in defined benefit obligation – UK Group plan	132	(126)
Increase/(decrease) in defined benefit obligation – US plan	8	(8)

Notes to the consolidated financial statements

25. Retirement benefit and other post-retirement obligations continued

Sensitivities continued

The effect of a half percentage point increase and decrease in the inflation rate is as follows:

<u>All figures in £ millions</u>	2019	
	<u>0.5% increase</u>	<u>0.5% decrease</u>
Effect:		
Increase/(decrease) in defined benefit obligation – UK Group plan	153	(136)
Increase/(decrease) in defined benefit obligation – US plan	—	—

The above sensitivity analyses are based on a change in an assumption while holding all other assumptions constant, although in practice this is unlikely to occur and changes in some assumptions may be correlated. When calculating these sensitivities, the same method has been applied to calculate the defined benefit obligation as has been applied when calculating the liability recognised in the balance sheet. This methodology is the same as prior periods.

26. Share-based payments

The Group recognised the following charges in the income statement in respect of its equity-settled share-based payment plans:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Pearson plans	25	37

The Group operates the following equity-settled employee option and share plans:

Worldwide Save for Shares Plan – Since 1994, the Group has operated a Save-As-You-Earn plan for UK employees. In 1998, the Group introduced a Worldwide Save for Shares Plan. Under these plans, employees can save a portion of their monthly salary over periods of three or five years. At the end of this period, the employee has the option to purchase ordinary shares with the accumulated funds at a purchase price equal to 80% of the market price prevailing at the time of the commencement of the employee's participation in the plan. Options that are not exercised within six months of the end of the savings period lapse unconditionally.

Employee Stock Purchase Plan – In 2000, the Group established an Employee Stock Purchase Plan which allows all employees in the US to save a portion of their monthly salary over six-month periods. At the end of the period, the employee has the option to purchase American Depositary Receipts (ADRs) with their accumulated funds at a purchase price equal to 85% of the lower of the market prices prevailing at the beginning or end of the period.

Long-Term Incentive Plan – The plan was first introduced in 2001, renewed again in 2006 and again in 2011. The plan consists of restricted shares. The vesting of restricted shares is normally dependent on continuing service over a three to five-year period, and in the case of executive directors and senior management upon the satisfaction of corporate performance targets over a three-year period. These targets may be based on market and/or non-market performance criteria. Restricted shares awarded to executive directors in May 2019 and May 2018 vest dependent on relative total shareholder return, return on invested capital and adjusted earnings per share growth. Other restricted shares awarded in 2019 and 2018 vest depending on continuing service over periods of up to three years.

Notes to the consolidated financial statements

26. Share-based payments continued

Management Incentive Plan – The plan was introduced in 2017 combining the Group’s Annual Incentive Plan and Long-Term Incentive Plan for senior management. The number of shares to be granted to participants is dependent on Group performance in the calendar year preceding the date of grant (on the same basis as the Annual Incentive Plan). Subsequently, the shares vest dependent on continuing service over a three-year period, and additionally in the case of Pearson Executive management, upon satisfaction of non-market based performance criteria as determined by the Remuneration Committee. Restricted shares awarded as part of the 2018 Management Incentive Plan were granted in April 2019. Restricted shares awarded as part of the 2019 Management Incentive Plan will be granted in April 2020.

The number and weighted average exercise prices of share options granted under the Group’s plans are as follows:

	2019		2018	
	Number of share options 000s	Weighted average exercise price £	Number of share options 000s	Weighted average exercise price £
Outstanding at beginning of year	2,728	5.76	2,981	6.84
Granted during the year	660	6.77	729	5.80
Exercised during the year	(419)	6.74	(70)	6.57
Forfeited during the year	(492)	6.21	(668)	7.58
Expired during the year	(83)	11.15	(244)	8.19
Outstanding at end of year	2,394	6.06	2,728	5.76
Options exercisable at end of year	161	7.14	169	11.31

Options were exercised regularly throughout the year. The weighted average share price during the year was £8.07 (2018: £8.45). Early exercises arising from redundancy, retirement or death are treated as an acceleration of vesting and the Group therefore recognises in the income statement the amount that otherwise would have been recognised for services received over the remainder of the original vesting period.

The options outstanding at the end of the year have weighted average remaining contractual lives and exercise prices as follows:

Range of exercise prices £	2019		2018	
	Number of share options 000s	Weighted average contractual life Years	Number of share options 000s	Weighted average contractual life Years
5–10	2,376	1.94	2,553	2.29
>10	18	1.04	175	0.29
	2,394	1.93	2,728	2.16

In 2019 and 2018, options were granted under the Worldwide Save for Shares Plan. The weighted average estimated fair value for the options granted was calculated using a Black-Scholes option pricing model.

Notes to the consolidated financial statements

26. Share-based payments continued

The weighted average estimated fair values and the inputs into the Black-Scholes model are as follows:

	2019 Weighted average	2018 Weighted average
Fair value	£ 2.31	£ 1.88
Weighted average share price	£ 8.30	£ 7.49
Weighted average exercise price	£ 6.77	£ 5.80
Expected volatility	32.07%	35.78%
Expected life	3.7 years	3.7 years
Risk-free rate	0.66%	0.87%
Expected dividend yield	2.11%	5.21%
Forfeiture rate	3.2%	3.2%

The expected volatility is based on the historical volatility of the company's share price over the previous three to seven years depending on the vesting term of the options.

The following shares were granted under restricted share arrangements:

	2019		2018	
	Number of shares 000s	Weighted average fair value £	Number of shares 000s	Weighted average fair value £
Long-Term Incentive Plan	2,785	8.09	2,907	7.55
Management Incentive Plan	1,435	8.49	2,035	7.45

The fair value of shares granted under the Long-Term Incentive Plan and the Management Incentive Plan that vest unconditionally is determined using the share price at the date of grant. The number of shares expected to vest is adjusted, based on historical experience, to account for potential forfeitures. Participants under the plans are entitled to dividends during the vesting period and therefore the share price is not discounted.

Restricted shares with a market performance condition were valued by an independent actuary using a Monte Carlo model. Restricted shares with a non-market performance condition were fair valued based on the share price at the date of grant. Non-market performance conditions are taken into consideration by adjusting the number of shares expected to vest based on the most likely outcome of the relevant performance criteria.

27. Share capital and share premium

	Number of shares 000s	Share capital £m	Share premium £m
At 1 January 2018	802,054	200	2,602
Issue of ordinary shares – share option schemes	864	1	5
Purchase of own shares	(21,840)	(6)	—
At 31 December 2018	781,078	195	2,607
Issue of ordinary shares – share option schemes	1,021	—	7
Purchase of own shares	—	—	—
At 31 December 2019	782,099	195	2,614

Notes to the consolidated financial statements

27. Share capital and share premium continued

The ordinary shares have a par value of 25p per share (2018: 25p per share). All issued shares are fully paid. All shares have the same rights.

The £300m share buyback programme announced in October 2017 was completed on 16 February 2018. A further 22m shares were purchased under the programme in 2018. The shares bought back have been cancelled and the nominal value of these shares transferred to a capital redemption reserve. The nominal value of shares cancelled at 31 December 2019 was £11m (2018: £11m).

The Group manages its capital to ensure that entities in the Group will be able to continue as a going concern while maximising the return to shareholders through the optimisation of the debt and equity balance.

The capital structure of the Group consists of debt (see note 18), cash and cash equivalents (see note 17) and equity attributable to equity holders of the parent, comprising issued capital, reserves and retained earnings.

The Group reviews its capital structure on a regular basis and will balance its overall capital structure through payments of dividends, new share issues as well as the issue of new debt or the redemption of existing debt in line with the financial risk policies outlined in note 19.

28. Treasury shares

	Pearson plc	
	Number of shares 000s	£m
At 1 January 2018	5,994	61
Purchase of treasury shares	—	—
Release of treasury shares	(2,769)	(28)
At 31 December 2018	3,225	33
Purchase of treasury shares	6,100	52
Release of treasury shares	(6,067)	(61)
At 31 December 2019	<u>3,258</u>	<u>24</u>

The Group holds Pearson plc shares in trust to satisfy its obligations under its restricted share plans (see note 26). These shares, representing 0.4% (2018: 0.4%) of called-up share capital, are treated as treasury shares for accounting purposes and have a par value of 25p per share.

The nominal value of Pearson plc treasury shares amounts to £0.8m (2018: £0.8m). Dividends on treasury shares are waived.

At 31 December 2019, the market value of Pearson plc treasury shares was £21m (2018: £30m).

Notes to the consolidated financial statements

29. Other comprehensive income continued

All figures in £ millions	2017					
	Attributable to equity holders of the company				Non-controlling interest	Total
	Fair value reserve	Translation reserve	Retained earnings	Total		
Items that may be reclassified to the income statement						
Net exchange differences on translation of foreign operations – Group	—	(158)	—	(158)	—	(158)
Net exchange differences on translation of foreign operations – associates	—	(104)	—	(104)	—	(104)
Currency translation adjustment disposed	—	(51)	—	(51)	—	(51)
Attributable tax	—	—	9	9	—	9
Items that are not reclassified to the income statement						
Fair value gain on other financial assets	13	—	—	13	—	13
Attributable tax	—	—	(4)	(4)	—	(4)
Remeasurement of retirement benefit obligations – Group	—	—	175	175	—	175
Remeasurement of retirement benefit obligations – associates	—	—	7	7	—	7
Attributable tax	—	—	(42)	(42)	—	(42)
Other comprehensive income/(expense) for the year	<u>13</u>	<u>(313)</u>	<u>145</u>	<u>(155)</u>	<u>—</u>	<u>(155)</u>

30. Business combinations

During the year the Group made some small acquisitions, including Lumerit Education and Smart Sparrow, for total consideration of £40m. Details of the assets acquired, and the associated consideration, are shown in the table below.

<u>all figures in £ millions</u>	<u>2019</u>
Intangible assets	23
Trade and other receivables	1
Trade and other liabilities	(2)
Net assets acquired	22
Goodwill	18
Total	40
Satisfied by:	
Cash	40
Total consideration	40

There were no significant acquisitions in 2018. There were no material adjustments to prior year acquisitions in 2019. The net cash outflow relating to acquisitions in the year is shown below.

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Cash flow on acquisitions			
Cash – current year acquisitions	(40)	—	—
Deferred payments for prior year acquisitions and other items	(5)	(5)	(11)
Net cash outflow	<u>(45)</u>	<u>(5)</u>	<u>(11)</u>

Notes to the consolidated financial statements

30. Business combinations continued

During 2019, the Group's associate, Penguin Random House raised additional capital from its owners in proportion to their equity interests with the Group's share being £40m.

31. Disposals

In March 2019, the Group completed the sale of its US K12 Courseware business resulting in a pre-tax profit on sale of £13m. Total gross proceeds were £200m including £180m of deferred proceeds which include the fair value of an unconditional vendor note for \$225m and an entitlement to 20% of future cash flows to equity holders and 20% of net proceeds in the event of a subsequent sale (see note 14 for further details). Tax on the disposal is a benefit of £51m. Other disposal items relate to investment sales and adjustments to prior year transactions.

All figures in £ millions	Notes	2019			2018	2017
		K12	Other	Total	Total	Total
Disposal of subsidiaries and associates						
Property, plant and equipment		—	—	—	(17)	(7)
Intangible assets		(101)	—	(101)	(17)	(9)
Investments in joint ventures and associates		—	—	—	(3)	(352)
Net deferred income tax assets		(100)	—	(100)	—	(3)
Intangible assets – pre-publication		(238)	—	(238)	(8)	(1)
Inventories		(64)	—	(64)	(1)	(2)
Trade and other receivables		(70)	—	(70)	(30)	(16)
Cash and cash equivalents (excluding overdrafts)		(104)	—	(104)	(119)	(13)
Net deferred income tax liabilities		—	—	—	16	—
Trade and other liabilities		520	—	520	172	34
Provisions for other liabilities and charges		—	—	—	1	—
Cumulative currency translation adjustment	29	(4)	—	(4)	4	51
Net assets disposed		(161)	—	(161)	(2)	(323)
Cash received		20	—	20	243	468
Deferred proceeds		180	—	180	2	—
Fair value of financial asset acquired		—	—	—	3	—
Costs		(26)	3	(23)	(16)	(17)
Gain on disposal		13	3	16	230	128

All figures in £ millions	2019	2018	2017
Cash flow from disposals			
Cash – current year disposals	20	243	468
Cash and cash equivalents disposed	(104)	(119)	(13)
Costs and other disposal liabilities paid	(17)	(23)	(25)
Net cash (outflow)/inflow	(101)	101	430
Analysed as:			
Cash (outflow)/inflow from sale of subsidiaries	(101)	83	19
Cash inflow from sale of joint ventures and associates	—	18	411

Notes to the consolidated financial statements

32. Held for sale

The held for sale asset in 2019 is the 25% holding in Penguin Random House following announcement of the sale in December 2019. Held for sale assets and liabilities in 2018 related to the US K12 Courseware business prior to disposal in 2019.

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
	<u>Total</u>	<u>Total</u>
Non-current assets		
Intangible assets	—	168
Investments in joint ventures and associates	397	—
Deferred income tax assets	—	98
Trade and other receivables	—	25
	397	291
Current assets		
Intangible assets – pre-publication	—	242
Inventories	—	55
Trade and other receivables	—	60
	—	357
Assets classified as held for sale	397	648
Non-current liabilities		
Other liabilities	—	(371)
	—	(371)
Current liabilities		
Trade and other liabilities	—	(202)
	—	(202)
Liabilities classified as held for sale	—	(573)
Net assets classified as held for sale	397	75

Goodwill is allocated to the held for sale businesses on a relative fair value basis where these businesses form part of a larger cash generating unit (CGU).

The Group has historically presented the results of PRH separately within segment information (see note 2) to provide further information about the composition of the Group outside of the primary segments. The Group has not viewed Penguin Random House as comprising a separate major line of business since the sale of 22% of the Group's stake in Penguin Random House to Bertelsmann in 2017. On this basis, the Group has not classified Penguin Random House as a discontinued operation.

Notes to the consolidated financial statements

33. Cash generated from operations

<u>All figures in £ millions</u>	<u>Notes</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Profit		266	590	408
Adjustments for:				
Income tax		(34)	(92)	13
Depreciation	10	123	66	90
Amortisation and impairment of acquired intangibles and goodwill	11	151	99	138
Amortisation of software	11	115	88	85
Net finance costs	6	43	55	30
Charges relating to GMP equalisation		—	8	—
Share of results of joint ventures and associates	12	(54)	(44)	(78)
Profit on disposal of subsidiaries, associates, investments and fixed assets		(9)	(315)	(116)
Net profit on disposal of right-of-use assets held under leases		(4)	—	—
Net foreign exchange adjustment from transactions		(21)	28	(26)
Investment income		(2)	—	—
Share-based payment costs	26	25	37	33
Pre-publication		(55)	(37)	(35)
Inventories		(20)	(10)	24
Trade and other receivables		59	(15)	133
Trade and other liabilities		(157)	35	6
Retirement benefit obligations		5	(9)	(232)
Provisions for other liabilities and charges		49	63	(11)
Net cash generated from operations		480	547	462

Net cash generated from operations is translated at an exchange rate approximating the rate at the date of cash flow. The difference between this rate and the average rate used to translate profit gives rise to a currency adjustment in the reconciliation between net profit and net cash generated from operations. This adjustment reflects the timing difference between recognition of profit and the related cash receipts or payments.

Operating cash flow, operating free cash flow and total free cash flow are non-GAAP (non-statutory) measures and have been disclosed and reconciled in the above table as they are commonly used by investors to measure the cash performance of the Group. In the cash flow statement, proceeds from sale of property, plant and equipment comprise:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Net book amount	3	41	12
Profit/(loss) on sale of property, plant and equipment	(2)	87	(12)
Proceeds from sale of property, plant and equipment ...	1	128	—

Notes to the consolidated financial statements

33. Cash generated from operations continued

The movements in the Group's current and non-current borrowings are as follows:

<u>All figures in £ millions</u>	<u>2018</u>	<u>IFRS 16 Transition</u>	<u>New leases/ disposal of leases</u>	<u>Transfer from non-current to current</u>	<u>Financing cash flows</u>	<u>Foreign exchange movements</u>	<u>Fair value and other movements</u>	<u>2019</u>
Financial liabilities								
Non-current								
borrowings	643	792	61	(88)	230	(80)	9	1,567
Current borrowings	25	89	—	88	(139)	16	—	79
Total	668	881	61	—	91	(64)	9	1,646

<u>All figures in £ millions</u>	<u>2017</u>	<u>Financing cash flows</u>	<u>Foreign exchange movements</u>	<u>Fair value and other movements</u>	<u>2018</u>
Financial liabilities					
Non-current borrowings					
	1,066	(441)	10	8	643
Current borrowings	4	(1)	22	—	25
Total	1,070	(442)	32	8	668

<u>All figures in £ millions</u>	<u>2016</u>	<u>Financing cash flows</u>	<u>Foreign exchange movements</u>	<u>Fair value and other movements</u>	<u>2017</u>
Financial liabilities					
Non-current borrowings					
	2,517	(1,292)	(149)	(10)	1,066
Current borrowings	9	(7)	(1)	3	4
Total	2,526	(1,299)	(150)	(7)	1,070

Non-current borrowings include bonds, derivative financial instruments and leases. Current borrowings include loans repayable within one year and leases, but exclude overdrafts classified within cash and cash equivalents.

34. Contingencies and commitments

There are contingent Group liabilities that arise in the normal course of business in respect of indemnities, warranties and guarantees in relation to former subsidiaries and in respect of guarantees in relation to subsidiaries, joint ventures and associates. In addition, there are contingent liabilities of the Group in respect of unsettled or disputed tax liabilities, legal claims, contract disputes, royalties, copyright fees, permissions and other rights. None of these claims are expected to result in a material gain or loss to the Group.

On 25 April 2019, the European Commission published the full decision that the United Kingdom controlled foreign company group financing partial exemption (FCPE) partially constitutes State Aid. The Group has lodged an appeal. The Group has benefited from the FCPE in 2018 and prior years by approximately £116m. At present the Group believes no provision is required in respect of this issue.

During 2019 the Group received an assessment from the tax authorities in Brazil challenging the deduction for tax purposes of goodwill amortisation for the years 2013 to 2016. Similar assessments may be raised for other years. Potential total exposure could be up to £124m (BRL 656m) upto 31 December 2019, with additional potential exposure of £45m (BRL 239m) in relation to deductions expected to be taken in future periods. Such assessments are common in Brazil. The Group believes that the likelihood that the tax authorities will ultimately prevail is low, and that the Group's position is strong. At present the Group believes no provision is required.

Notes to the consolidated financial statements

34. Contingencies and commitments continued

At the balance sheet date there were no commitments for capital expenditure contracted for but not yet incurred. Commitments in respect of leases are shown in note 35.

35. Leases

The Group's lease portfolio consists of approximately 750 property leases, mainly offices and test centres, together with a number of vehicle and equipment leases. The Group has adopted IFRS 16 'Leases' at 1 January 2019 and applied the modified retrospective approach. Comparatives for 2018 have not been restated. The Group has elected not to recognise right-of-use assets and lease liabilities for short-term leases that have a lease term of 12 months or less and leases of low value assets. The Group recognises the lease payments associated with these leases as an expense on a straight-line basis over the lease term.

Disclosure required by IFRS 16:

As a lessee:

The amounts recognised in the income statement are as follows:

<u>All figures in £ millions</u>	<u>Note</u>	<u>2019</u>
Interest on lease liabilities	6	(45)
Expenses relating to short-term leases		(2)
Depreciation of right-of-use assets	10	(64)

Right-of-use assets comprise the following and are included within property, plant and equipment in the balance sheet:

<u>All figures in £ millions</u>	<u>2019</u>		
	<u>Land and buildings</u>	<u>Plant and equipment</u>	<u>Total</u>
Balance at 1 January 2019	—	—	—
Adjustment on initial application of IFRS 16 (see note 1b)	418	6	424
Balance at 31 December 2019	<u>402</u>	<u>7</u>	<u>409</u>

For additional analysis of the right-of-use assets, including additions, depreciation and disposals, see note 10.

Lease liabilities are included within financial liabilities – borrowings in the balance sheet, see note 18. The maturities of the Group's lease liabilities are as follows:

<u>All figures in £ millions</u>	<u>2019</u>
Less than one year	123
One to five years	420
More than five years	622
Total undiscounted lease liabilities	<u>1,165</u>
Lease liabilities included in the balance sheet	<u>838</u>
Analysed as:	
Current	89
Non-current	749

Notes to the consolidated financial statements

35. Leases continued

The amounts recognised in the cash flow statement are as follows:

<u>All figures in £ millions</u>	<u>2019</u>
Total cash outflow for leases as a lessee	136

At the balance sheet date commitments for capital leases contracted for but not yet incurred were £25m. Extension and termination options and variable lease payments are not significant within the lease portfolio. Short-term leases to which the Group is committed at the balance sheet date are similar to the portfolio of short-term leases to which the short-term lease expense is disclosed above.

As a lessor:

In the event that the Group has excess capacity in its leased offices and warehouses, the Group sub-leases some of its properties under operating and finance leases.

The amounts recognised in the income statement are as follows:

<u>All figures in £ millions</u>	<u>Note</u>	<u>2019</u>
Interest on finance lease receivable	6	11
Income from sub-leasing right-of-use assets (within other income)		17

The amounts recognised in the cash flow statement are as follows:

<u>All figures in £ millions</u>	<u>2019</u>
Total cash inflow for leases as a lessor	37

During the year the investment in finance lease receivable decreased by £19m due to payments received.

The following table sets out the maturity analysis of lease payments receivable for sub-leases classified as operating leases, showing the undiscounted lease payments to be received after the reporting date, and sub-leases classified as finance leases showing the undiscounted lease payments to be received after the reporting date and the net investment in the finance lease receivable.

<u>All figures in £ millions</u>	<u>Operating leases</u>	<u>Finance leases</u>	<u>2019 Total</u>
Less than one year	12	34	46
One to two years	4	40	44
Two to three years	4	33	37
Three to four years	3	30	33
Four to five years	3	31	34
More than five years	<u>20</u>	<u>67</u>	87
Total undiscounted lease payments receivable	46	235	281
Unearned finance income		<u>(39)</u>	
Net investment in finance lease receivable		<u>196</u>	

Notes to the consolidated financial statements

35. Leases continued

IAS 17 disclosure for 2018:

The maturity of the Group's finance lease obligations is as follows:

<u>All figures in £ millions</u>	<u>2018</u>
Finance lease liabilities – minimum lease payments	
Not later than one year	3
Later than one year and not later than two years	1
Later than two years and not later than three years	1
Later than three years and not later than four years	—
Later than four years and not later than five years	—
Later than five years	—
Future finance charges on finance leases	—
Present value of finance lease liabilities	<u><u>5</u></u>

The present value of the Group's finance lease obligations is as follows:

<u>All figures in £ millions</u>	<u>2018</u>
Not later than one year	3
Later than one year and not later than five years	2
Later than five years	—
	<u><u>5</u></u>

The carrying amounts of the Group's lease obligations approximate their fair value.

In 2018 the Group leased various offices and warehouses under non-cancellable operating lease agreements. The leases had varying terms and renewal rights. The Group also leased various plant and equipment under operating lease agreements, also with varying terms. Lease expenditure charged to the income statement in 2018 was £128m. The future aggregate minimum lease payments in respect of operating leases were as follows:

<u>All figures in £ millions</u>	<u>2018</u>
Not later than one year	143
Later than one year and not later than two years	130
Later than two years and not later than three years	115
Later than three years and not later than four years	101
Later than four years and not later than five years	91
Later than five years	595
	<u><u>1,175</u></u>

Notes to the consolidated financial statements

35. Leases continued

In the event that the Group had excess capacity in its leased offices and warehouses, it entered into sub-lease contracts in order to offset costs. The future aggregate minimum sub-lease payments expected to be received under non-cancellable sub-leases were as follows:

<u>All figures in £ millions</u>	<u>2018</u>
Not later than one year	51
Later than one year and not later than two years	44
Later than two years and not later than three years	41
Later than three years and not later than four years	39
Later than four years and not later than five years	35
Later than five years	124
	<u>334</u>

36. Related party transactions

Joint ventures and associates

Amounts advanced to joint ventures and associates during the year and at the balance sheet date are set out in note 12.

Key management personnel

Key management personnel are deemed to be the members of the Pearson executive. It is this Committee which had responsibility for planning, directing and controlling the activities of the Group in 2019. Key management personnel compensation is disclosed below:

<u>All figures in £ millions</u>	<u>2019</u>	<u>2018</u>
Short-term employee benefits	5	6
Retirement benefits	1	1
Share-based payment costs	4	7
Total	<u>10</u>	<u>14</u>

There were no other material related party transactions. No guarantees have been provided to related parties.

37. Post balance sheet events

In January 2020, the Group commenced £350m share buyback program in connection with the announcement in December 2019 of the sale of its remaining 25% interest in Penguin Random House. On 23 March 2020, in response to the uncertainty surrounding the impact of the COVID-19 pandemic, the Group announced it was pausing this share buyback program. At this date the Group had completed the buyback of £167m of shares.

On 23 March 2020, the Group announced an update to its guidance for 2020 to consider the impact of the COVID-19 pandemic on Pearson's businesses. The update outlined the impact on trading in 2020 and documented some of the uncertainties for the business. The Group does not believe that any of the impacts constitute an adjusting post balance sheet event for the purposes of the 2019 financial statements. The Group includes reference to critical accounting assumptions and judgements in note 1a. The potential impact of the COVID-19 pandemic on the business is highly uncertain and cannot be predicted with confidence but may cause

Notes to the consolidated financial statements

37. Post balance sheet events continued

the Group, in 2020, to reassess some of the areas requiring a higher degree of judgement or complexity or areas where assumptions and estimates are significant to the financial statements. These areas include the assessment of goodwill for impairment, as set out in note 11, where the Group has noted that a number of its cash generating units (CGUs) are sensitive to reasonably possible changes in key assumptions. It is highlighted that a relatively small reduction in contribution, that could arise from longer-term disruption caused by the COVID-19, may result in an impairment charge in any of these CGUs. Other areas where assumptions and estimates are significant include the valuation of pre-publication assets, tax balances, provisions for returns and pension assets and liabilities. The assumptions and estimates relating to these areas could change as the impact of COVID-19 becomes clearer although currently they are not expected to have a material impact on the income statement. The Group has also reassessed its funding requirements considering the impact of the COVID-19 pandemic on the business. The impact has been modelled under several scenarios to ensure that the likelihood of a prolonged period of disruption has been appropriately considered in assessing the availability of funding to the Group and the ability of the Group to comply with its banking covenants. Based on this modelling and a review of historical trends in working capital requirements and forecast balance sheets for the next 12 months, the Group believes that it will comply with its banking covenants and has sufficient funds available for the Group's present requirements.

SIGNATURES

The registrant hereby certifies that it meets the requirements for filing a Form 20-F and that it has caused and authorized the undersigned for sign this annual report on its behalf.

Pearson plc

/s/ Coram Williams

Coram Williams
Chief Financial Officer

Date: April 1, 2020