

- 1 a** 5.507605086... (1)
b 5.51 (1) Or 14.4 (from 14.3696... in part a)
- 2** 67° seen (1)
 180 – (2 × their 67) (1)
 46° (ft their 67) (1)
- 3** Products 4, 15, 30, 14, 56, 72, 40 (1) (allow one error)
 231 ÷ 30 (1)
 7.7 (1)
- 4** Kelly = 22 (1)
 Mel = 15 or their 22 – 7 (1)
 Lucy = 30 or 2 × their 15 (1)
 Nicky = 19 (1)
- 5** 210 : 36 seen (1)
 35 : 6 (1)
- 6** 228 seen (1)
 228 ÷ 6 (1)
 38 grams (1)
- 7 a** $3x = 13 + 5$ (1)
 $x = 6$ (1)
b $2x + 6 = 21$ (1)
 $2x = 21 - 6$ (1)
 $x = 7.5$ (1)
- 8** $(\frac{1}{4} =)$ 4 seen (1)
 16 seen (1)
 80 (1)
- 9** 16 seen (1)
 64 – (their 16) or 48 (1)
 2 × 69 or 138 (1)
 Either $48 \times 3 = 144$ and 'Savershop'
 or $138 \div 3 = 46$ and 'Savershop' (1)
- 10** $(9 - 6 =)$ 3 seen or $(12 - 4 =)$ 8 seen (1)
 $\frac{1}{2} \times 8 \times 3$ or 12 (1)
 12 × 6 or 72 (1) Or mark for equivalent correct method using trapezium.
 84 cm² (1)
- 11** 506 ÷ 11 or 46 (1)
 2 × their 46, 4 × their 46 and 5 × their 46 (1)
 £92, £184 and £230 (1)
- 12** $\frac{12}{100} \times 44$ (oe) or 5.28 (1)
 44 + their 5.28 (1)
 £49.28 (1)
- 13 a** 18 minutes (1)
b 920 m (1)

- 14 a** 11 600 (1)
b Rounded to 400, 0.5 or 8 (1) Accept two correct.
 $200 \div 8$ or 50×0.5 (1)
 25 (1)
- 15 a** 22, 14, 40, 30 and 54 (2) One mark for three or four correct.
b $\frac{24}{120}$ (1)
 $= \frac{1}{5}$ (1)
- 16 a** 0.6 (1)
b 70×0.4 (1)
 $= 28$ (1)
- 17** Trapezium at (1, 1), (4, 1), (7, 7) and (1, 7) (2) One mark for three points correct.
- 18** $6.8 \times 25\,000$ or 170 000 (1)
 1700 m or 1.7 km (1)
- 19** 49, 27 and 11 seen (1) Accept two correct.
 $8 \times 22 \div 11$ (1)
 16 (1)
- 20 a** 46 km (1)
b 44 minutes (1)
c E to F (1)
 $13 \div 10 (\times 60)$ or 1.3 (km/min) (1)
 78 km/h (1)
- 21** $\pi \times 20$ or 62.8318... (1)
 $62.8318... - 18 - 18$ or 26.8318... (1)
 $26.8318... \div 2$ (1)
 13.4(159...) cm (1)
- 22** $169 = 64 + (2 \times 9 \times s)$ (1) (allow one error)
 $169 - 64 = 18s$ (1) (ft their one error)
 5.83(33...) (1)
- 23 a** $6(3y + 2)$ (1)
b $5m + 10f + 3m - 12f$ (1) (allow one error)
 $8m - 2f$ (1)
- 24** C and E (2)
- 25 a** $6 \div 2$ or 60 seen (1)
 3 days (1)
b $6 \times 10 \div 4$ or $60 \div 4$ or their 3×5 (1)
 15 days (1)

GCSE % breakdown per topic:

	Number	Algebra	Ratio	Geometry	Stats & Prob	Total
5c						
5b	Q1 (2 marks)				Q3 (3)	5
5a	Q4 (4) Q6 (3)	Q7a (2)	Q5 (2)	Q2 (3)		14
6c	Q8 (3) Q12 (3) Q14 (4)	Q7b (3)	Q9 (4) Q11 (3)	Q10 (4)	Q13 (2) Q15 (4)	30
6b	Q19 (3)		Q18 (2)	Q17 (2)	Q16 (3)	10
6a		Q20 (5)				5
7c		Q23a (1)	Q25 (4)	Q21 (4)		9
7b		Q22 (3) Q23b (2)		Q24 (2)		7
Total	22	16	15	15	12	