

## Australian Signpost Maths 4 (AC V9.0) Suggested Program

Term 1

| Week Program | Page | Unit | Title | Strand | Curriculum Code/s | Curriculum subelements |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week 1 | Mentals unit 1 |  |  |  |  |  |
| Week 2 | Mentals unit 2 |  |  |  |  |  |
| Week 3 | 1 | 1:01 | Numbers to 10000 | Number and algebra | AC9M4N01 | Number and place value |
| Week 3 | 2 | 1:02 | Numbers to 10000 | Number and algebra | AC9M4N01 | Number and place value |
| Week 3 | 3 | 1:03 | Rounding off | Number and algebra | AC9M4N01 | Number and place value |
| Week 3 | 22 | 2:01 | Number patterns | Operations and algebra | AC9M4N09 | Number patterns and algebraic thinking |
| Week 3 | 23 | 2:02 | Multiplication tables revision | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 3 | 24 | 2:03 | x 4 tables | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 4 | 4 | 1:04 | Fractions | Number and algebra | AC9M4N04 | Interpreting fractions |
| Week 4 | 5 | 1:05 | Comparing fractions | Number and algebra | AC9M4N04 | Interpreting fractions |
| Week 4 | 81 | 3:01 | Analog time | Measurement | AC9M4M01 AC9M4M03 | Measuring time |
| Week 4 | 82 | 3:02 | Analog and digital time | Measurement | AC9M4M01 AC9M4M03 | Measuring time |
| Week 4 | 83 | 3:03 | Analog and digital time | Measurement | AC9M4M01 AC9M4M03 | Measuring time |
| Week 5 | 25 | 2:04 | Times tables review | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 5 | 84 | 3:04 | Using a ruler | Measurement | AC9M4M01 | Understanding units of measurement (Length) |
| Week 5 | 85 | 3:05 | Centimetres and millimetres | Measurement | AC9M4M01 | Understanding units of measurement (Length) |
| Week 5 | 86 | 3:06 | Using millimetres | Measurement | AC9M4M01 | Understanding units of measurement (Length) |
| Week 6 | 6 | 1:06 | Improper fractions | Number and algebra | AC9M4N04 | Interpreting fractions |
| Week 6 | 7 | 1:07 | Mixed numbers | Number and algebra | AC9M4N04 | Interpreting fractions |
| Week 6 | 87 | 3:07 | Square centimetres | Measurement | AC9M4M02 | Understanding units of measurement (Area) |
| Week 6 | 88 | 3:08 | The square centimetre | Measurement | AC9M4M02 | Understanding units of measurement (Area) |
| Week 6 | 89 | 3:09 | The square centimetre | Measurement | AC9M4M02 | Understanding units of measurement (Area) |
| Week 7 | 26 | 2:05 | Addition, no trading | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 7 | 27 | 2:06 | Addition and subtraction, no trading | Operations and algebra | AC9M4N06 AC9M4N08 | Additive strategies, Understanding money |
| Week 7 | 118 | 4:01 | Flip, slide and turn | Space | AC9M4SP03 | Understanding geometric properties (2D space) |

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Term 1 cont.

| Week 7 | 119 | 4:02 | Angles and 2D shapes | Space | AC9M4M04 | Understanding geometric properties (Angles, 2D space) |
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| Week 7 | 120 | 4:03 | Comparing angles | Space | AC9M4M04 | Understanding geometric properties (Angles) |
| Week 8 | 8 | 1:08 | Large numbers | Number and algebra | AC9M4N01 | Number and place value, Counting processes |
| Week 8 | 9 | 1:09 | Hundreds of thousands | Number and algebra | AC9M4N01 | Number and place value, Counting processes |
| Week 8 | 28 | 2:07 | Addition to 99 with trading | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 8 | 29 | 2:08 | Addition to 99 with trading | Operations and algebra | AC9M4N06 AC9M4N08 | Additive strategies, Understanding money |
| Week 8 | 144 | 5:01 | Drawing tables | Statistics | AC9M4ST01 | Interpreting and representing data |
| Week 9 | 10 | 1:10 | Fraction patterns | Number and algebra | AC9M4N04 | Interpreting fractions |
| Week 9 | 11 | 1:11 | Equivalent fractions | Number and algebra | AC9M4N03 | Interpreting fractions |
| Week 9 | 12 | 1:12 | Equivalent fractions | Number and algebra | AC9M4N03 | Interpreting fractions, Number patterns and algebraic thinking |
| Week 9 | 145 | 5:02 | Chance | Probability | AC9M4P01 AC9M4P02 | Understanding chance |
| Week 9 | 146 | 5:03 | Chance | Probability | AC9M4P01 | Understanding chance |
| Week 10 | 90 | 3:10 | Temperature | Measurement | AC9M4M01 | Understanding units of measurement (Temperature) |
| Week 10 | 91 | 3:11 | Recording temperature | Measurement | AC9M4M01 | Understanding units of measurement (Temperature) |

## Australian Signpost Maths 4 (AC V9.0) Suggested Program

Term 2

| Week Program | Page | Unit | Title | Strand | Curriculum Code/s | Curriculum subelements |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week 11 | 13 | 1:13 | Numbers using millions | Number and algebra | AC9M4N01 | Number and place value, Counting processes |
| Week 11 | 14 | 1:14 | Rounding off | Number and algebra | AC9M4N01 | Number and place value |
| Week 11 | 30 | 2:09 | Jump strategy, + | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 11 | 31 | 2:10 | Jump strategy, - | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 12 | 15 | 1:15 | Hundredths | Number and algebra | AC9M4N01 | Interpreting fractions |
| Week 12 | 16 | 1:16 | Decimals | Number and algebra | AC9M4NO1 AC9M4N03 | Number and place value |
| Week 12 | 32 | 2:11 | x 8 tables | Operations and algebra | AC9M4N06 | Multiplicative strategies |
| Week 12 | 33 | 2:12 | x 8 tables | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 13 | 17 | 1:17 | Tenths | Number and algebra | AC9M4NO1 AC9M4N03 | Interpreting fractions |
| Week 13 | 18 | 1:18 | Comparing decimals | Number and algebra | AC9M4N01 | Number and place value |
| Week 13 | 121 | 4:04 | 3D objects | Space | AC9M4SP01 | Understanding geometric properties (3D space) |
| Week 13 | 122 | 4:05 | Prisms and pyramids | Space | AC9M4SP01 | Understanding geometric properties (3D space) |
| Week 14 | 19 | 1:19 | Place value in decimals | Number and algebra | AC9M4N01 | Number and place value |
| Week 14 | 20 | 1:20 | Place value to hundredths | Number and algebra | AC9M4N01 | Number and place value |
| Week 14 | 21 | 1:21 | Reading and writing decimals | Number and algebra | AC9M4N01 | Number and place value |
| Week 14 | 123 | 4:06 | Faces of prisms and pyramids | Space | AC9M4SP01 | Understanding geometric properties (3D space) |
| Week 14 | 124 | 4:07 | Prisms and pyramids | Space | AC9M4SP01 | Understanding geometric properties (3D space) |
| Week 15 | 34 | 2:13 | Addition, trading 2 tens | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 15 | 35 | 2:14 | Addition involving hundreds | Operations and algebra | AC9M4N06 AC9M4N07 | Additive strategies |
| Week 15 | 36 | 2:15 | Addition problems to 99 | Operations and algebra | AC9M4N08 | Additive strategies, Understanding money |
| Week 15 | 147 | 5:04 | Using graphs | Statistics | AC9M4ST02 | Interpreting and representing data |
| Week 15 | 148 | 5:05 | Reading graphs | Statistics | AC9M4ST02 | Interpreting and representing data |
| Week 16 | 37 | 2:16 | $\times 3, \times 6$ tables | Operations and algebra | AC9M4N06 | Multiplicative strategies |
| Week 16 | 38 | 2:17 | $x 3$ and x 6 tables | Operations and algebra | AC9M4A02 | Multiplicative strategies, Number patterns and algebraic thinking |
| Week 16 | 92 | 3:12 | Using millilitres | Measurement | AC9M4M01 | Understanding units of measurement (Capacity) |

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Term 2 cont.

| Week 16 | 93 | $3: 13$ | Using millilitres | Measurement | AC9M4M01 | Understanding units of <br> measurement (Capacity) |
| :--- | :---: | :---: | :--- | :--- | :--- | :--- |
| Week 16 | 94 | $3: 14$ | Using L and mL | Measurement | AC9M4M01 | Understanding units of <br> measurement (Capacity) |
| Week 17 | 39 | $2: 18$ | Subtraction with trading | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 17 | 40 | $2: 19$ | Subtraction from tens | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 17 | 41 | $2: 20$ | Subtraction with trading | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 17 | 125 | $4: 08$ | Drawing angles | Space | AC9M4M04 | Understanding geometric <br> properties (Angles) |
| Week 17 | 126 | $4: 09$ | Angles at quarter and half <br> turns | Space | AC9M4M04 | Understanding geometric <br> properties (Angles) |
| Week 18 | 42 | $2: 21$ | x9 tables | Operations and algebra | AC9M4A02 | Number patterns and <br> algebraic thinking |
| Week 18 | 43 | $2: 22$ | x 9 tables | Operations and algebra | AC9M4A02 | Number patterns and <br> algebraic thinking |
| Week 18 | 127 | $4: 10$ | Investigating polygons | Space | AC9M4SP03 | Understanding geometric <br> properties (2D space) |
| Week 18 | 128 | $4: 11$ | Visualising shapes | Space | AC9M4SP03 | Understanding geometric <br> properties (2D space) |
| Week 19 | 44 | $2: 23$ | Addition to 999 | Operations and algebra | AC9M4N06 | AC9M4N07 |

## Australian Signpost Maths 4 (AC V9.0) Suggested Program

Term 3

| Week Program | Page | Unit | Title | Strand | Curriculum Code/s | Curriculum subelements |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week 21 | 47 | 2:26 | What's the rule? | Operations and algebra | AC9M4N09 | Number patterns and algebraic thinking, Additive strategies |
| Week 21 | 48 | 2:27 | Number patterns | Operations and algebra | AC9M4N09 | Number patterns and algebraic thinking |
| Week 21 | 131 | 4:14 | Cones, cylinders and spheres | Space | AC9M4SP01 | Understanding geometric properties (3D space) |
| Week 21 | 132 | 4:15 | Views of 3D objects | Space | AC9M4SP03 | Understanding geometric properties (3D space) |
| Week 22 | 49 | 2:28 | x 7 tables | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 22 | 50 | 2:29 | x 7 tables | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 22 | 51 | 2:30 | Multiplication tables review | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 22 | 95 | 3:15 | Measuring mass | Measurement | AC9M4M01 | Understanding units of measurement (Mass) |
| Week 22 | 96 | 3:16 | Using grams | Measurement | AC9M4M01 | Understanding units of measurement (Mass) |
| Week 23 | 52 | 2:31 | Subtraction without trading to 999 | Operations and algebra | AC9M4N06 AC9M4N07 | Additive strategies, Understanding money |
| Week 23 | 53 | 2:32 | Subtraction with trading to 999 | Operations and algebra | AC9M4N06 AC9M4N07 | Additive strategies, Understanding money |
| Week 23 | 97 | 3:17 | Telling time | Measurement | AC9M4M01 | Measuring time |
| Week 23 | 98 | 3:18 | Time | Measurement | AC9M4M01 AC9M4M03 | Measuring time |
| Week 23 | 99 | 3:19 | am and pm time | Measurement | AC9M4M01 AC9M4M03 | Measuring time |
| Week 24 | 54 | 2:33 | Subtraction with trading to 999 | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 24 | 55 | 2:34 | Subtraction with 2 trades to 999 | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 24 | 100 | 3:20 | Recording length | Measurement | AC9M4M01 | Understanding units of measurement (Length) |
| Week 24 | 101 | 3:21 | Comparing measurements | Measurement | AC9M4M01 | Understanding units of measurement |
| Week 24 | 102 | 3:22 | Using measurement scales | Measurement | AC9M4M01 | Understanding units of measurement |
| Week 25 | 56 | 2:35 | Mental strategies, + and - | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 25 | 57 | 2:36 | Mental strategies, + and - | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 25 | 103 | 3:23 | Recording length | Measurement | AC9M4M01 | Understanding units of measurement (Length) |

## Australian Signpost Maths 4 (AC V9.0) Suggested Program

## Term 3 cont.

| Week 25 | 104 | 3:24 | The square metre | Measurement | AC9M4M02 | Understanding units of measurement (Area) |
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| Week 25 | 105 | 3:25 | The square metre | Measurement | AC9M4M02 | Understanding units of measurement (Area) |
| Week 26 | 58 | 2:37 | Subtraction from hundreds | Operations and algebra | AC9M4N06 <br> AC9M4N07 <br> AC9M4N08 | Additive strategies, Number patterns and algebraic thinking, Understanding money |
| Week 26 | 59 | 2:38 | Subtraction from hundreds strategy | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 26 | 133 | 4:16 | Compass directions | Space | AC9M4SP02 | Positioning and locating |
| Week 26 | 134 | 4:17 | Compass directions | Space | AC9M4SP02 | Positioning and locating |
| Week 26 | 152 | 5:08 | Tally marks | Statistics | AC9M4ST01 AC9M4ST02 | Interpreting and representing data |
| Week 27 | 60 | 2:39 | Division as repeated subtraction | Operations and algebra | AC9M4N06 | Multiplicative strategies |
| Week 27 | 61 | 2:40 | Understanding division | Operations and algebra | AC9M4N06 | Multiplicative strategies |
| Week 27 | 135 | 4:18 | Describing position | Space | AC9M4SP02 | Positioning and locating |
| Week 27 | 136 | 4:19 | Using position in maps | Space | AC9M4SP02 | Positioning and locating |
| Week 27 | 152 | 5:09 | Collecting information | Statistics | AC9M4ST03 | Interpreting and representing data |
| Week 28 | 62 | 2:41 | Division facts | Operations and algebra | AC9M4A02 <br> AC9M4N08 | Multiplicative strategies |
| Week 28 | 63 | 2:42 | Division facts | Operations and algebra | AC9M4A02 | Multiplicative strategies |
| Week 28 | 106 | 3:26 | Timelines | Measurement | AC9M4M03 | Measuring time |
| Week 28 | 107 | 3:27 | Timetables | Measurement | AC9M4M03 | Measuring time |
| Week 29 | 64 | 2:43 | Odd and even numbers | Operations and algebra | AC9M4N02 | Number and place value |
| Week 29 | 65 | 2:44 | Odd and even | Operations and algebra | AC9M4N02 | Number and place value |
| Week 29 | 108 | 3:28 | The calendar | Measurement | AC9M4M03 | Measuring time |
| Week 29 | 109 | 3:29 | The calendar | Measurement | AC9M4M03 | Measuring time |
| Week 29 | 110 | 3:30 | The passage of time | Measurement | AC9M4M01 AC9M4M03 | Measuring time |
| Week 30 | 66 | 2:45 | Division using grid | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 30 | 67 | 2:46 | $x$ and $\div($ by $2,4,8)$ | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |

## Australian Signpost Maths 4 (AC V9.0) Suggested Program

Term 4

| Week Program | Page | Unit | Title | Strand | Curriculum Code/s | Curriculum subelements |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week 31 | 68 | 2:47 | Mental strategies, x and $\div$ | Operations and algebra | AC9M4N05 AC9M4N06 | Multiplicative strategies, Number patterns and algebraic thinking |
| Week 31 | 69 | 2:48 | Working with numbers | Operations and algebra | AC9M4N06 AC9M4N08 | Number patterns and algebraic thinking |
| Week 31 | 111 | 3:31 | Measuring mass | Measurement | AC9M4M01 | Understanding units of measurement (Mass) |
| Week 31 | 112 | 3:32 | Personal benchmarks | Measurement | AC9M4M01 | Understanding units of measurement |
| Week 31 | 113 | 3:33 | Finding area | Measurement | AC9M4M02 | Understanding units of measurement (Area) |
| Week 32 | 70 | 2:49 | $x$ and $\div($ by $3,6,9)$ | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 32 | 71 | 2:50 | Division facts | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 32 | 137 | 4:20 | Visualising shapes | Space | AC9M4SP03 | Understanding geometric properties (2D space) |
| Week 32 | 138 | 4:21 | Acute and obtuse angles | Space | AC9M4M04 | Understanding geometric properties (Angles) |
| Week 32 | 139 | 4:22 | Angles of any size | Space | AC9M4M04 | Understanding geometric properties (Angles) |
| Week 33 | 72 | 2:51 | Money | Operations and algebra | AC9M4N01 AC9M4N06 | Understanding money |
| Week 33 | 73 | 2:52 | Rounding off money | Operations and algebra | AC9M4NO1 AC9M4N06 | Number and place value, Understanding money |
| Week 33 | 74 | 2:53 | Counting change | Operations and algebra | AC9M4N01 AC9M4N06 | Additive strategies, Understanding money |
| Week 33 | 153 | 5:10 | Constructing spinners | Statistics | AC9M4P01 AC9M4P02 | Interpreting and representing data |
| Week 33 | 154 | 5:11 | Unequal outcomes | Probability | AC9M4P01 AC9M4P02 | Understanding chance |
| Week 34 | 75 | 2:54 | Multiplying by $10,100,1000$ | Operations and algebra | AC9M4N05 | Multiplicative strategies |
| Week 34 | 76 | 2:55 | Dividing by $10,100,1000$ | Operations and algebra | AC9M4N05 | Multiplicative strategies |
| Week 34 | 140 | 4:23 | Horizontal and vertical | Space | AC9M4SP01 | Understanding geometric properties |
| Week 34 | 141 | 4:24 | Tessellations | Space | AC9M4SP03 | Understanding geometric properties (2D space) |
| Week 34 | 142 | 4:25 | Rotational symmetry | Space | AC9M4SP03 | Understanding geometric properties (2D space) |
| Week 35 | 77 | 2:56 | Linking $\div$ and x | Operations and algebra | AC9M4A01 | Number patterns and algebraic thinking |
| Week 35 | 78 | 2:57 | Missing number strategies | Operations and algebra | AC9M4A01 | Number patterns and algebraic thinking |

Australian Signpost Maths 4 (AC V9.0) Suggested Program
Term 4 cont.

| Week 35 | 114 | 3:34 | Using mm when building | Measurement | AC9M4M01 | Understanding units of measurement (Length) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week 35 | 115 | 3:35 | Length on a map | Measurement | AC9M4M01 | Understanding units of measurement (Length) |
| Week 35 | 155 | 5:12 | Surveys | Statistics | AC9M4ST03 | Interpreting and representing data |
| Week 36 | 79 | 2:58 | Partitioning, + and - | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 36 | 80 | 2:59 | Mental strategies, + and - | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 36 | 116 | 3:36 | Problem solving | Measurement | AC9M4M01 AC9M4N08 | Understanding units of measurement, Additive relations, Multiplicative relations |
| Week 36 | 143 | 4:26 | Spreadsheets | Space | AC9M4SP02 | Positioning and locating |
| Week 36 | 156 | 5:13 | Graphing data | Statistics | AC9M4ST01 <br> AC9M4ST02 | Interpreting and representing data |
| Week 37 | 117 | 3:37 | Problem solving | Measurement | AC9M4M01 AC9M4N08 | Understanding units of measurement, Additive relations, Multiplicative relations |
| Week 37 | 157 | 5:14 | Chance experiments | Probability | AC9M4P01 <br> AC9M4P02 | Understanding chance, Interpreting and representing data |
| Week 37 | 158 | 5:15 | Carry out your own survey | Statistics | AC9M4ST03 | Interpreting and representing data |
| Week 37 | 159 | 5:16 | Chance experiments | Probability | AC9M4P01 AC9M4P02 | Understanding chance |

## Australian Signpost Maths Year 4 (AC V9.0) Curriculum Map

| Strand | Code | Descriptor | Australian Signpost Maths 4 Lessons |
| :---: | :---: | :---: | :---: |
| Number | AC9M4N01 | recognise and extend the application of place value to tenths and hundredths and use the conventions of decimal notation to name and represent decimals | 1:01-2 Numbers to 10000 <br> 1:03 Rounding off <br> 1:08 Large numbers <br> 1:09 Hundreds of thousands <br> 1:13 Numbers using millions <br> 1:14 Rounding off <br> 1:15 Hundredths <br> 1:16 Decimals <br> 1:17 Tenths <br> 1:18 Comparing decimals <br> 1:19 Place value in decimals <br> 1:20 Place value to hundredths <br> 1:21 Reading and writing decimals <br> 2:51 Money <br> 2:52 Rounding off money <br> 2:53 Counting change |
| Number | AC9M4N02 | explain and use the properties of odd and even numbers | 2:43 Odd and even numbers 2:44 Odd and even |
| Number | AC9M4N03 | find equivalent representations of fractions using related denominators and make connections between fractions and decimal notation | 1:11-12 Equivalent fractions <br> 1:16 Decimals <br> 1:17 Tenths |
| Number | AC9M4N04 | count by fractions including mixed numerals; locate and represent these fractions as numbers on number lines | 1:04 Fractions <br> 1:05 Comparing fractions <br> 1:06 Improper fractions <br> 1:07 Mixed numbers <br> 1:10 Fraction patterns |
| Number | AC9M4N05 | solve problems involving multiplying or dividing natural numbers by multiples and powers of 10 without a calculator, using the multiplicative relationship between the place value of digits | 2:47 Mental strategies, $x$ and $\div$ <br> 2:54 Multiplying by $10,100,1000$ <br> 2:55 Dividing by $10,100,1000$ |
| Number | AC9M4N06 | develop efficient strategies and use appropriate digital tools for solving problems involving addition and subtraction, and multiplication and division where there is no remainder | 2:05 Addition, no trading <br> 2:06 Addition and subtraction, no trading <br> 2:07-8 Addition to 99 with trading <br> 2:09 Jump strategy, + <br> 2:10 Jump strategy, - <br> 2:11 x 8 tables <br> 2:13 Addition, trading 2 tens <br> 2:14 Addition involving hundreds <br> 2:16 x 3, x 6 tables <br> 2:18 Subtraction with trading <br> 2:19 Subtracting from tens <br> 2:20 Subtracting with trading <br> 2:23-24 Addition to 999 <br> 2:25 Writing algorithms <br> 2:31-32 Subtraction without trading to <br> 999 <br> 2:33 Subtraction with trading to 999 <br> 2:34 Subtraction with 2 trades to 99 <br> 2:35-36 Mental strategies, + and - <br> 2:37 Subtracting from hundreds <br> 2:38 Subtracting from hundreds strategy |

## Australian Signpost Maths Year 4 (AC V9.0) Curriculum Map

|  |  |  | 2:39 Division as repeated subtraction <br> 2:40 Understanding division <br> 2:47 Mental strategies, $x$ and $\div$ <br> 2:48 Working with numbers <br> 2:51 Money <br> 2:52 Rounding off money <br> 2:53 Counting change <br> 2:58 Partitioning, + and - <br> 2:59 Mental strategies, + and - |
| :---: | :---: | :---: | :---: |
| Number | AC9M4N07 | choose and use estimation and rounding to check and explain the reasonableness of calculations including the results of financial transactions | 2:14 Addition involving hundreds <br> 2:23 Addition to 999 <br> 2:31-32 Subtraction without trading to <br> 999 <br> 2:37 Subtracting from hundreds |
| Number | AC9M4N08 | use mathematical modelling to solve practical problems involving additive and multiplicative situations including financial contexts; formulate the problems using number sentences and choose efficient calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation | 2:06 Addition and subtraction, no trading <br> 2:08 Addition to 99 with trading <br> 2:15 Addition problems to 99 <br> 2:25 Writing algorithms <br> 2:37 Subtracting from hundreds <br> 2:41 Division facts <br> 2:48 Working with numbers <br> 3:36-37 Problem solving |
| Number | AC9M4N09 | follow and create algorithms involving a sequence of steps and decisions that use addition or multiplication to generate sets of numbers; identify and describe any emerging patterns | 2:01 Number patterns <br> 2:26 What's the rule? <br> 2:27 Number patterns |
| Algebra | AC9M4A01 | find unknown values in numerical equations involving addition and subtraction, using the properties of numbers and operations | 2:56 Linking $\div$ and $x$ <br> 2:57 Missing number strategies |
| Algebra | AC9M4A02 | recall and demonstrate proficiency with multiplication facts up to $10 \times 10$ and related division facts; extend and apply facts to develop efficient mental strategies for computation with larger numbers without a calculator | 2:02 Multiplication tables revision 2:03 x 4 tables <br> 2:04 Times tables review <br> 2:12 x 8 tables <br> 2:17 x 3 and $\times 6$ tables <br> 2:21-22 x 9 tables <br> 2:28-29 x 7 tables <br> 2:30 Multiplication tables review <br> 2:41-42 Division facts <br> 2:45 Division using grids <br> $2: 46 x$ and $\div$ tables (by $2,4,8$ ) <br> 2:49 $x$ and $\div$ tables (by $3,6,9$ ) <br> 2:50 Division facts |
| Measurement | AC9M4M01 | interpret unmarked and partial units when measuring and comparing attributes of length, mass, capacity, duration and temperature, using scaled and digital instruments and appropriate units | 3:01 Analog time <br> 3:02-3 Analog and digital time <br> 3:04 Using a ruler <br> 3:05 Centimetres and millimetres <br> 3:06 Using millimetres <br> 3:10 Temperature <br> 3:11 Recording temperature <br> 3:12-13 Using millilitres <br> 3:14 Using $L$ and mL <br> 3:15 Measuring mass <br> 3:16 Using grams |

## Australian Signpost Maths Year 4 (AC V9.0) Curriculum Map

| Measurement | AC9M4M01 cont. | interpret unmarked and partial units when measuring and comparing attributes of length, mass, capacity, duration and temperature, using scaled and digital instruments and appropriate units | 3:17 Telling time <br> 3:18 Time <br> 3:19 am and pm time <br> 3:20 Recording length <br> 3:21 Comparing measurements <br> 3:22 Using measurement scales <br> 3:23 Recording length <br> 3:30 The passage of time <br> 3:32 Personal benchmarks <br> 3:34 Using mm when building <br> 3:35 Length on a map <br> 3:36-37 Problem solving |
| :---: | :---: | :---: | :---: |
| Measurement | AC9M4M02 | recognise ways of measuring and approximating the perimeter and area of shapes and enclosed spaces, using appropriate formal and informal units | 3:07 Square centimetres 3:08-9 The square centimetre 3:24-25 The square metre 3:33 Finding area |
| Measurement | AC9M4M03 | solve problems involving the duration of time including situations involving "am" and "pm" and conversions between units of time | 3:01 Analog time <br> 3:02-3 Analog and digital time <br> 3:18 Time <br> 3:19 am and pm time <br> 3:26 Timelines <br> 3:27 Timetables <br> 3:28-29 The calendar <br> 3:30 The passage of time |
| Measurement | AC9M4M04 | estimate and compare angles using angle names including acute, obtuse, straight angle, reflex and revolution, and recognise their relationship to a right angle | 4:02 Angles and 2D shapes <br> 4:03 Comparing angles <br> 4:08 Drawing angles <br> 4:09 Angles at quarter and half turns <br> 4:21 Acute and obtuse angles <br> 4:22 Angles of any size |
| Space | AC9M4SP01 | represent and approximate composite shapes and objects in the environment, using combinations of familiar shapes and objects | 4:04 3D objects <br> 4:05 Prisms and pyramids <br> 4:06 Faces of prisms and pyramids <br> 4:07 Prisms and pyramids <br> 4:14 Cones, cylinders and spheres <br> 4:23 Horizontal and vertical <br> 4:24 Tessellations |
| Space | AC9M4SP02 | create and interpret grid reference systems using grid references and directions to locate and describe positions and pathways | 4:12 Maps <br> 4:13 Creating a map <br> 4:16-17 Compass directions <br> 4:18 Describing position <br> 4:19 Using position in maps <br> 4:26 Spreadsheets |
| Space | AC9M4SP03 | recognise line and rotational symmetry of shapes and create symmetrical patterns and pictures, using dynamic geometric software where appropriate | 4:01 Flip, slide and turn <br> 4:10 Investigating polygons <br> 4:11 Visualising shapes <br> 4:15 Views of 3D objects <br> 4:20 Visualising shapes <br> 4:24 Tessellations <br> 4:25 Rotational symmetry |

Australian Signpost Maths Year 4 (AC V9.0) Curriculum Map

| Statistics | AC9M4ST01 | acquire data for categorical and discrete numerical variables to address a question of interest or purpose, using digital tools; represent data using many-to-one pictographs, column graphs and other displays or visualisations; interpret and discuss the information that has been created | 5:01 Drawing tables <br> 5:08 Tally marks <br> 5:13 Graphing data |
| :---: | :---: | :---: | :---: |
| Statistics | AC9M4ST02 | analyse the effectiveness of different displays or visualisations in illustrating and comparing data distributions, then discuss the shape of distributions and the variation in the data | 5:04 Using graphs <br> 5:05 Reading graphs <br> 5:08 Tally marks <br> 5:13 Graphing data |
| Statistics | AC9M4ST03 | conduct statistical investigations, collecting data through survey responses and other methods; record and display data using digital tools; interpret the data and communicate the results | 5:09 Collecting information <br> 5:12 Surveys <br> 5:15 Carry out your own survey |
| Probability | AC9M4P01 | describe possible everyday events and the possible outcomes of chance experiments and order outcomes or events based on their likelihood of occurring; identify independent or dependent events | 5:02-3 Chance <br> 5:06 Ordering events <br> 5:07 Chance used in games <br> 5:10 Constructing spinners <br> 5:11 Unequal outcomes <br> 5:14 Chance experiments <br> 5:16 Chance experiments |
| Probability | AC9M4P02 | conduct repeated chance experiments to observe relationships between outcomes; identify and describe the variation in results | 5:02 Chance <br> 5:10 Constructing spinners <br> 5:11 Unequal outcomes <br> 5:14 Chance experiments <br> 5:16 Chance experiments |

## What is Australian Signpost Maths?

Australian Signpost Maths is a mathematics program providing direction and support for teaching and learning. The series covers the content and skills presented in the Australian Curriculum (vg) Mathematics F-6.
A Student Book and an online Teacher Resource are provided for Foundation.

For Years 1 to 6, a Student Book, an online Teacher Resource and a Mentals Book are provided for each year level. The online Teacher Resources provide a wealth of support for teachers.
The content has been carefully sequenced within each year level and across the $\mathrm{F}-6$ series to take into account students' expected mathematical development. However, from the rich and varied material provided, teachers can develop individual learning programs to meet the needs of each student.

The Student Books are designed to support explicit teaching methods. Many group activities are provided in Activity, Investigation and Fun spots within the Student Books and the online Teacher Resource.

To maximise the benefits of the program, the Student Book, the online Teacher Resource and the Mentals Book should be used together.


Student Books


## Structure of Australian Signpost Maths

In the Year 3 to 6 books, the worksheet pages cover all three elements: Number sense and algebra, Measurement and geometry, and Statistics and probability. These are presented in five chapter

- Number andalgebra - Operations and algebra
- Measurement - Space
- Statistics-and probability.

This gives teachers flexibility in programming. The contents cross-reference allows teachers to quickly find the pages where each concept has been covered.

Within the program, explicit teaching, critical and creative thinking, language development and identification and treatment of weaknesses are given high priority.

## Identification and addressing areas of need

Five progress tests are designed to identify each student's areas of need, and the follow-up program after each of the tests is designed to address these needs. A reference to the relevant worksheet page is given for each test
question. A remediation record page is used to track the student's progress.

These testing resources can be found in the online Teacher Resource.

Parallel progress retests are provided for further testing after remediation has taken place.


## Special features of Australian Signpost Maths

## - The traffic light icons

These are found on the top right of each worksheet page in the Student Books. They allow students to assess their own progress and give feedback to the teacher.

$\square$Green: I found this work easy.
Orange: I found some work on the page difficult.
Red: I don't understand the work on this page.

## - Dictionary

Terms used in the Student Book and terms that should be understood at this level are recorded here to provide a reference for students and teachers. This is found on pages xiv-xxii of this book.

## - ID cards (Years 1 to 6)

These cards review the language of Mathematics by asking students to identify common terms, shapes and symbols. They are designed to be reused and are found in the online Teacher Resource and in the front of the Mentals Books.

## - Progress tests

These allow the teacher to identify each student's strengths and needs. Cross references for each question direct teachers and students to the pages where that work is introduced. Tables are provided to record any follow up and parallel tests are provided for retesting. These tests are in the online Teacher Resource.

## - Year 4 Consolidation booklet

This booklet is found in the online Teacher Resource. It is designed to reinforce work completed in class and provides practice of important skills and addition and subtraction facts. The booklet can be used when there is limited supervision or when a student finishes classwork early.

## - Answers

These are supplied in the Student Book and the online Teacher Resource.

## - Blackline masters (BLM)

References are made to the blackline masters in the online teacher notes provided for each Student Book work page. The BLMs are also accessed online.

## - Differentiation

Each Student Book work page has a Teacher Resource page to support it. Cross-references direct theteacher to pages where the concept is introduced and
 developed. These references may be from the Student Book for the previous year, the current year or the next year.

The online Teacher Resource support pages provide additional learning activities for students who need remediation or extension activities. The Blackline Masters provide activities to support students of various learning abilities.

## - Cartoons

Cartoons are used to motivate and instruct.

## - Extra support pages

Addition and subtraction facts are reinforced in Extra support 1. In Years 3 and 4, the algorithm strategy pages extend the fast workers. In Years 5 and 6 there is support for decimals, fractions, multiplication and problem solving.

## Australian Signpost Maths icons

Signpost icons are used throughout the book as cues to the essential nature of exercises and activities, and as a guide to ways of engaging with them. These icons often indicate alternative or more concrete approaches to dealing with concepts.


This icon highlights important rules and concepts occurring throughout the book. It often appears with worked examples.

Activities provide applications and enrichment. These activities usually involve the use of concrete materials and partner or group work.


These enjoyable activities are used to motivate and involve students in mathematical pursuits. They usually involve games and puzzles.

## Structure of the Australian Cufriculum, F-6 (v9)



The Curriculum strives to develop in students proficiency in Mathematics, highlighting Understanding, Fluency, Reasoning and Problem solving.

## Mathematics content of the Australian Curriculum

- It is important that you download the GENERAL CAPABILITIES document from 'Downloads' in the top navigation bar of the website homepage. It contains the tables that list the progression level expectations for each Year, F to 10. It also provides the content of all progression levels.
- The LEARNING AREAS download gives a summary of Content descriptions and Elaborations. CROSS-CURRICULUM PRIORITIES can also be found there.

(3) Write these as numerals. a one thousand and forty
c five thousand, one hundred and seventy-nine
e two thousand, six hundred and thinty-four
g eightthousand, five hundred and sixty-eight
(4) Write in words:
a 4023
b 9030
c 7500
d 2901
$\square$

Ten thousand $=10000=10 \times 1000=100 \times 100=1000 \times 10$. There are 4 zeros in each.
(1) How many times as big is the number shown in:
a $\mathbf{A}$, compared to the one shown in $\mathbf{B}$ ?
b B, compared to the one shown in $\mathbf{C}$ ?
c C, compared to the one shown in $\mathbf{D}$ ?
d $\mathbf{A}$, compared to the one shown in $\mathbf{C}$ ?
e B, compared to the one shown in $\mathbf{D}$ ?
f A, compared to the one shown in $\mathbf{D}$ ?
(2) Which number is larger:
a A: $60000+7000+600+80+1$ or B: $60000+900+90+9$ ?
b $\mathrm{C}: 80000+1000+200+40+9$ or
D. $80000+2000+100+60+2$ ?
c $\mathrm{E}: 20000+5000+700+10+8$ or
F: $20000+5000+800+80+1 ?$
d G: $50000+3000+900+90+2$ or
H: $50000+9000+700+90+2$ ?

(3)
A 74186
B 79146
C 60715
D 40207
E 97364
F 98170
a Which number has althat stands for 7000 ?
b Which numbers contain 6 s that have the same value?
c Which numbers contain 9 s that have the same value?
d Which numbers contain 7 s that have the same value?
e How many times as big is the 7 in $\mathbf{B}$ compared to the 7 in $\mathbf{E}$ ?


## Wipe out a digit

- A student enters any 5-digit number into a calculator.
- A partner selects any digit to be 'wiped out', i.e. changed to zero.
- Only one operation can be entered into the calculator to wipe out a digit.
- Take turns and score one point for each successful wipe out.

3478 rounds off to 3000 (to the nearest 1000).


65432 rounds off to 70000 (to the nearest 10000 ).


65000 rounds
CONCEPT
CONCEPT

When rounding a number to a particular place, look at the next digit. If it is 5 or more, round up. If it is less than 5 , round down.
(1) Round off these numbers to the nearest hundred.
a 3674
e 6549 $\square$
$\square$
c 1396
g 8962



2 Round off these numbers to the nearest thousand.

| a 31569 |  |
| :--- | :--- | :--- |
| b 23496 |  |
| e $82738 \square$ | f $52301 \square$ |
| f |  |
| $\square$ |  |

(3) Round off these numbers to the nearest ten-thousand.
a 46867 $\square$
b 82999
c 25000 $\square$
d $88235 \square$
h $74000 \square$
(4) a Circle numbers that round off to 53000 .

| 53640 | 52967 | 52849 |
| :--- | :--- | ---: |
| 52621 | 52076 | 53297 |
| 53599 | 53346 | 52374 |


| b | Circle numbers that round off to 80 |  |  |
| :--- | ---: | ---: | :---: |
| 79621 | 87231 | 81119 |  |
| 85000 | 74649 | 75000 |  |
| 83713 | 71998 | 76014 |  |

(5) Answer true or false for each statement.
a 4639 rounds off to 4600 .
b 1854 rounds off to 1800 .
c 6341 rounds off to 6400 .
d 9782 rounds off to 9800 .
e 35000 rounds off to 40000 .



Use skip counting to continue the patterns on this page. Add on the same number each time.
(1) a $1,2,3,4$,
b 2, 4, 6, 8,
c 3, 6, 9, 12,
d $4,8,12,16$,
e $5,10,15,20$,
f $6,12,18,24$,
g 7, 14, 21, 28,
h 8, 16, 24, 32,
i 9, 18, 27, 36,
j $10,20,30,40$,

(2) a 9, 10, 11,
c 27, 30, 33,
e $45,50,55$,
g 63, 70, 77,
i $81,90,99$,

(3) Consider your answers to Question 1. Describe the pattern made by the last digits of each number in part:

(4) Make two number patterns of your own.
$\square$ b $\square$
$\square$
$\square$

Step 1: Have someone test you.
Step 2: For each table you don't know, make a card with the question on one side and the answer on the other.
Step 3: Carry these cards with you, testing yourself until you know them.

Use these steps to learn your 1, 2, 3, 5 and 10 times tables.

(1) Use skip counting to complete.


2 Complete these number wheels.

(3) a


$$
\begin{aligned}
& 10 \\
& \text { c } \quad \text { d } \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
& \hline
\end{aligned} \begin{array}{r}
2 \\
\times \quad 5 \\
\hline
\end{array}
$$




## Multiplication cards

- Cards marked 1 to 10 are placed face down in a pile.
- One card is turned at a time. The first to correctly multiply the card by 5, keeps the card. The player with the most cards wins.

(3) Complete the table.

| $\times$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |


(4) a 3 groups of 4 cars

c 10 groups of 4 cars

$$
\square \times \square=\square
$$

b 5 groups of 4 cars

d 11 groups of 4 cars
$\square$
(5) Complete these number wheels.


(1) What part of each shape has been coloured?
a

e

f

h

(2) What part of each shape above has not been coloured?
a $\square$
b $\square$
c $\square$
d
f $\square$
g $\square$ $h \square$

(3) Colour part of each shape to match the given fraction.

(4) What part of each group has been coloured?

(5) What part of each group above has not been coloured?
a $\square$
b $\square$
c $\square$
d $\square$
e $\square$
f $\square$



We need to have : equal wholes to compare fraction parts.
(1) Circle the larger fraction.
 $\frac{1}{2}$ or $\frac{1}{8}$
b

e


or $\frac{1}{4}$

d


CONCEPT
(2) Colour part of each shape to match the given fraction.
a

$\frac{3}{4}$
e

b


d

h

(3) Write true or false for each statement.
a $\frac{2}{2}=1$
b $\frac{4}{5}=1$ $\square$ c $\frac{8}{8}=1$
d $1=\frac{10}{10}$
e $1=\frac{3}{8}$ $\square$ f $1=\frac{5}{5}$
$\square$ are all 1.
(4) Find the coloured fraction.


Circle the larger fraction.
d $\frac{1}{10}$ or $\frac{1}{5}$
e $\frac{1}{2}$ or $\frac{1}{5}$
f $\frac{1}{2}$ or $\frac{3}{5}$
g $\frac{7}{10}$ or $\frac{1}{2}$
h $\frac{3}{10}$ or $\frac{1}{5}$

(1) Complete the label for each time shown.


g

h

(2) Complete the clocks to show the given times.

(3) Write the time that is five minutes after:


(1) Complete the labels for each time shown.
a


7 :
$\square$ past

c

$4: \square$

f

to $\square$
$\square$
$\square$

m

$\square$ past $\square$
$\square$

k

(2) Write the time that is one minute after:

| a $3: 16$ |  |
| :--- | :--- | :--- |
| d $9: 03$ | b $2: 47$ |
| e $11: 41$ |  |
| g 12:24 | $\square$ |
| h $5: 20$ | $\square$ |
| c | $\square: 28$ |
| f | $\square: 39$ |
| $i$ | $6: 55$ |

(3) Write the time that is five minutes after:
a $4: 13$
d 10:54 $\square$ b 9:41
e 8:16 $\square$ c $7: 32$
f 5:58


These are analog clocks.
$5,10,15,16,17$ minutes.

min is short for minutes.
(1) Complete the label for each time shown.

(2) Complete the label for each time shown.
 b

$\square$
past
$\square$ past $\square$
$\square$
$\square$
(3) The cross-country run began at 10:15. I finished at 10:58. How long did I take? Ron, who was also in the race, finished at 10:50. How long did he take? The winner of the race finished the run at 10:43. By how much did he beat me?


At 1:37, I walked back to school. It took me 9 minutes. When did I reach school?


Ron did not reach school until 14 minutes later. When did he get there?
$\square$
(5) Jindi, Jedda and Mali walked from the waterhole to the river to meet their father's boat. They left at 7:15. It took them 1 hour 23 minutes. When did they reach the river? $\square$ Their father's boat arrived 20 minutes after them. When did the boat arrive?

Mentals

## Introduction

## Using the Mentals Books

This book is used most effectively when it aligns with the suggested program in the Student book contents.
Each unit of the Mentals Book is programmed to review Student Book content for the previous two weeks (based on the Suggested Program in the Teacher's Book). For example, Unit 15 of the Mentals Book can be set as homework to review weeks 13 and 14 of the Student Book while week 15 is being taught.

## Mixed-topic questions

The units present questions in a mixed-topic format to encourage thorough understanding and continuous review.

## Presentation

- Number facts are reinforced to encourage instant recall.
- Essential skills are explained.
- The Arithmetic card (page 5) is a useful teaching tool for practising basic number skills.
- ID cards (pages 6 and 7) review the mathematical terms students need to learn.
- Measurement standards and examples (pages 8 and 9) are provided so that students can learn important facts and estimate measurements effectively.
Graded Questions
- Column 1: easier
- Column 2 and 3: harder
- Column 4: Extension and Challenge


## Motivation

There are two lizards hidden on each page for students to find.
The header allows students to record their score.


## 1:1

$\square$ out of 17
(1) $2+3$
(2) $7 \times 2$
(3) $57-10$ $\square$ (8) $35+10$
(4) $3 \times 5$
(5) 54 $\begin{array}{r}54 \\ +3 \\ \hline\end{array}$

11 $40000+2000+900+20+6$
(12 $\frac{1}{10}, \frac{2}{10}, \frac{3}{10}, \square, \square, \square, \square, \square$
(13) Circle the largest number. 46716, 46293, 44912
(14) If $36+7=43$, then $136+7=$
(15) Colour the change I would get from 50 cents when I spend 35 cents.


16 Which of the terms impossible, unlikely, likely or certain describes the chance of you finding $\$ 20$ tomorrow?
$(17)$ Match each fraction to a decimal:

(1) $20+13$ -
(6) $13+$ $\qquad$ $=20$
(2) $5 \times 4$ $\square$ (7) $5+$ $\qquad$ $=20$
(3) $36-19$
(8) $647-8$
(4) $58-19$
(9) $522-6$
(5) 46 +33
+
(10) 34 $+42$
(11) Write the decimal for 7 tenths.
(12) Use the jump strategy to find: $36+29=$
(13) Use decimals to write zero point nine.
(14) What date is the: a second Saturday?
b fourth Monday?

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|  |  | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 |  |  |

(15) Write these numbers on the place-value chart. a 846393 b 80475
c 87637

|  | Thousands | Hundreds | Tens | Ones |
| :--- | :--- | :--- | :--- | :--- |
| a |  |  |  |  |
| b |  |  |  |  |
| c |  |  |  |  |



## 1:3

## $\square$ out of 8

(1) Write the decimal for:
a $\frac{8}{10}$
b $\frac{2}{10}$
c $\frac{7}{10}$
d $8 \frac{6}{10}$
e $3 \frac{5}{10}$ $\qquad$
(2) Colour 3 fifths of this shape.

(3) The fraction for 5.8 is $5 \frac{8}{10}$.

Write the fraction for:
a $1.8 \square$
b $3.9 \square$
c $6.7 \square$
(4) Colour the change you would get from $\$ 2$ when you spend $\$ 1.35$ cents.

(5) Sarah drew 4 monsters.

She gave each 5 legs.
How many legs were there altogether?
(6) Bridge to the next ten to find: a $57+8$
b $36+7$
c $69+9$ $\qquad$
7 This is the net of a


8 How many digits in 846901 ?

1 a How many 50c coins make $\$ 2$ ?
b How many 20c coins make \$2?
c How many 10c coins make \$2?
d How many 5c coins make $\$ 2$ ?
(2) Is $8 \frac{3}{5}$ equal to $8 \frac{4}{10}$ ?
(3) Jane and I collected cards. She collected 35 more than me. If I collected 145 cards, how many cards do we have altogether?
(4) Jonkey hit 35 golf balls and Scott hit 6 less. How many did they hit altogether?
(5)

a 4 stickers? $\qquad$ b 6 stickers?

Challenge
Write what you know about the number 426930.
$\qquad$

Fill out this table about yourself, a relative or a friend.


Name:
Date:


(1) $20+25$
(2) $50-30$
(3) $40+37$
(4) $60-26$
(5) 53

| +32 |
| :--- |

(6) 8 less than 100
(7) 8 groups of 10
(8) $14+$ $\qquad$ $=20$
(9) $12+$ $\qquad$ $=30$
(10) 75
$-42$
(11) Name each shape and write the number of faces.

(12) Write these decimals as tenths.
a $0.3 \square$
b $0.6 \square$
c $0.9 \square$

13 I get $\$ 5$ pocket money each week.
How much will I get in 4 weeks?
(14) a $53,63,73$,
b $35,40,45$,
$\qquad$
$\qquad$
c $530,540,550$,
d 28, 26, 24,
(15) Is 32520 larger than 32509 ?
(16) $30000+2000+200+40+2$

17 I walked along a 5 m balance beam 3 times. How far did walk?
18 The number before 56723 is
(1) $42+36$
(6) 19 subtract 12
(2) $83-21$
(3) $28+51$
(7) 27 minus 15
(8) 12 shared by 3
(4) $70-22$
(9) 70 divided by 10
(5) 34
(10) 64 +34
+
$+23$
$(11$

a This time is minutes past
b It is also read as

past 2
13 This is a $\qquad$ edges and
$\qquad$ faces, $\qquad$
$\qquad$ corners.
The cross-section is a $\qquad$ .

$\square$ to 8

14 Is the height of your mother more than 2 metres?
(15) 8 days after Wednesday is

16 The 9th month of the year is
(17) $13+17+12+8$

(1) Round 4583 to the nearest 1000.
(2) I had 34 balls and lost some.

How many did I lose if I have 18 left?
(3) Write the numeral for sixty-seven thousand, 4 hundred and seventeen.
(4) Describe this rectangle and write the area.

rows of $\qquad$ Area $=$ $\qquad$ $\mathrm{cm}^{2}$
(5) a The analog time is $\qquad$ to $\qquad$

b The digital time. is $\qquad$ : $\qquad$ .
(6) What is the time ten minutes after: a quarter to 4 ?
b 3 minutes to 7 ?
(7) Give a rule for this pattern.
$20,40,60,80,100, \ldots .$.
8 The number before 6493.
(9) Cross out the mistake in the pattern.

(10) Write in short form
a 60 grams
b 64 kilograms $\qquad$

## Challenge

Write questions that are equal to:

| a $34-12$ | b $35+3$ | c $5 \times 8$ |
| :--- | :--- | :--- |
| $=\square$ | $=$ | $=\square$ |
| $=\square$ | $=$ | $=\square$ |
| $=\square$ | $=$ | $=\square$ |
| $=$ | $=$ | $=\square$ |

