



Year 6

Place Value 1
<ul style="list-style-type: none"> Represent numbers to 10 million Round numbers up to 10 million to the nearest 100,000, 10,000, 1,000, 100, 10 and 1 Solve place value problems where information is presented in different representations
Addition and Subtraction 1
<ul style="list-style-type: none"> Add and subtract integers Add and subtract decimals of different lengths Solve problems involving all four operations, including multi-step word problems
Multiplication and Division 1
<ul style="list-style-type: none"> Find factor pairs of numbers Use knowledge of factors to divide 3- and 4-digit numbers by 2-digit numbers Find common multiples Identify prime numbers to 100 Develop mental methods for calculations, using known facts
Fractions, Decimals and Percentages 1
<ul style="list-style-type: none"> Simplify fractions Place fractions on a number line Compare and order fractions with different denominators, using a common denominator
Fractions, Decimals and Percentages
<ul style="list-style-type: none"> Add and subtract fractions Add and subtract mixed numbers Add and subtract proper fractions and mixed numbers
Fractions, Decimals and Percentages
<ul style="list-style-type: none"> Multiply a fraction by an integer by repeated addition Multiply a fraction by a fraction using a visual representation Multiply a fraction by a fraction Divide a fraction by an integer

Place Value 2
<ul style="list-style-type: none"> Use negative numbers in context Calculate differences between positive and negative numbers, where a visual representation is available Calculate differences between positive and negative numbers, where the information is presented on a graph Compare negative numbers and compare a negative number with an integer. Solve place value problems
Multiplication and Division 2
<ul style="list-style-type: none"> Divide up to a 4-digit number by a 2-digit number Make choices about how to deal with remainders after division
Multiplication and Division 3
<ul style="list-style-type: none"> Use BODMAS to complete calculation using the correct order of operations Solve problems involving all four operations, including multi-step word problems
Algebra 1
<ul style="list-style-type: none"> Find and express a one-step rule for a linear sequence using n as the unknown value Find and express a two-step rule for a linear sequence Find missing numbers in sequences with a two-step rule, including the number which precedes the given start number Form algebraic expressions Use symbols and letters for substitution Use formulae
Fractions, Decimals and Percentages 4
<ul style="list-style-type: none"> Use ratio terminology - per, each, share Compare fractions and ratios Use a colon as a ratio symbol Calculate using ratio Use scale factors to enlarge shapes Use a scale factor to calculate missing side lengths Solve ratio and proportion problems
Measures 1
<ul style="list-style-type: none"> Identify, read and write metric measurements for length, mass and capacity Convert between metric units of measurement Solve one-step word problems which involve the conversion of measures

Measures 2
<ul style="list-style-type: none"> Calculate using metric units of measure Convert between miles and kilometres Solve multi-step word problems which involve the conversion of measures Solve time duration word problems
Measures 3
<ul style="list-style-type: none"> Revise perimeter and area of compound rectilinear shapes Calculate the area of a triangle Calculate the area of a parallelogram Compare volumes using $l \times w \times h$
Fractions, Decimals and Percentages 5
<ul style="list-style-type: none"> Calculate a fraction of an amount Calculate a whole from a fractional part
Fractions, Decimals and Percentages 6
<ul style="list-style-type: none"> Convert fractions to percentages Find equivalences between fractions, decimals and percentages Order and compare fractions, decimals and percentages Calculate a percentage of an amount including multiples of 1% Calculate a whole from a percentage part Link percentages to pie charts
Shape 1
<ul style="list-style-type: none"> Measure with a protractor Explore angle facts and real-world use of angles Calculate angles on a straight line and around a point Calculate angle angles using vertically opposite angle knowledge Calculate missing angles in triangles Calculate missing angles in quadrilaterals Explore interior angles in polygons
Shape 2
<ul style="list-style-type: none"> Draw shapes to make nets accurately Identify parts of circles- circumference, radius and diameter Know that the diameter of a circle is double the radius

Fluency - Calculation
<ul style="list-style-type: none"> Recall methods for division Recall methods for division using factorisation
Fluency – Measures
<ul style="list-style-type: none"> Solve 2 and 3 step calculation problems involving units of measure and conversion.
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<ul style="list-style-type: none"> Solve 2 and 3 step calculation problems involving units of measure and conversion. Determine the meaning of a remainder after a division in the context of a problem
Fluency – Algebra
<ul style="list-style-type: none"> Substitute values into expressions that represent real-life problems (eg. the time taken to cook a chicken, or the total purchase price of tickets)
Fluency – Decimals and Fractions
<ul style="list-style-type: none"> Relate fractions to decimals Give solutions to division problems with remainders as fractions and decimals
Fluency – Decimals and Fractions
<ul style="list-style-type: none"> Multiply decimals by a whole number Multiply a fraction by a whole number

Fluency – Data
<ul style="list-style-type: none"> Calculate the mean Read and interpret pictograms, bar charts and line graphs, including where the y-axis shows negative values.
Fluency – Fractions
<ul style="list-style-type: none"> Solve 2 and 3 step problems involving fractions.
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SATs
<ul style="list-style-type: none">
Data 1
<ul style="list-style-type: none"> Top Trumps data project Frequency tables Bar charts and frequency diagrams Probability
Data 2
<ul style="list-style-type: none"> Top Trumps data project Scatter graphs Averages – mean, median, mode and range

Algebra 2
<ul style="list-style-type: none"> Substitute numbers into expressions Collect like terms
Measures
<ul style="list-style-type: none"> Speed Use a distance time graph
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<ul style="list-style-type: none"> Speed Use a distance time graph
Fraction, decimals and percentages
<ul style="list-style-type: none"> Calculate percentage increases and decreases Find a whole from a percentage amount
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<ul style="list-style-type: none"> Calculate percentage increases and decreases Find a whole from a percentage amount

STATISTICS:

Calculate and interpret the mean. Dissolving Jelly Aut.2
Construct and interpret pie charts where the total is a factor of 360 (DT Spr.1 – market research for vacuum cleaner designs).

