



4

Mathematics Programmes of Study

I can read Roman numerals to 100 (I to C) and understand how the numeral system changed.

I can solve number and practical problems using place value.

I can round any number to the nearest 10, 100 or 1000.

I can identify, represent and estimate numbers.

I can order and compare numbers beyond 1000.

I can recognise the place value of each digit in a 4-digit number.

I can count backwards through zero to include negative numbers.

I can find 100 more or less than a given number.

I can count in multiples of 6, 7, 9, 25 and 1000.

I can solve mental calculations with increasingly large numbers.

I can solve subtraction two-step problems deciding which operations and methods to use and why.

I can solve addition two-step problems deciding which operations and methods to use and why.

I can use inverse s to check answers to calculations.

I can estimate to check answers to calculations.

I can subtract numbers with up to 4 digits using efficient written methods.

I can add numbers with up to 4 digits using efficient written methods.

I can solve problems involving multiplying and dividing.

I can multiply three-digit numbers by a one-digit number.

I can multiply two-digit numbers by a one-digit number.

I can recognise and use factor pairs in mental calculations.

I can multiply together three numbers.

I can use place value, known and derived facts to divide mentally.

I can use place value, known and derived facts to multiply mentally.

I can recall \times and \div facts for multiplication tables up to 12×12 .

I can solve simple measure and money problems involving fractions and decimals to two decimal places.

I can compare numbers with the same number of decimal places.

I can round decimals with 1 decimal place to the nearest whole number.

I can find the effect of dividing a number by 10 and 100 and identify the the value of the digits in the answer.

I can recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$.

I can recognise and write decimal equivalents of any number of 10ths or 100ths.

I can add and subtract fractions with the same denominator.

I can identify, name and write equivalent fractions of a given fraction.

I can count up and down in 100ths and recognise that 100ths arise when dividing an object by a 100 and dividing 10ths by 10.

I can solve problems involving converting from hours to minutes; minutes to seconds; years to months and weeks to days.

I can read, write and convert time between analogue and digital 12 and 24-hour clocks.

I can estimate, compare and calculate different measures, including money in pounds and pence.

I can find the area of rectilinear shapes by counting.

I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.

I can convert between different units of measure (e.g. Kilometre to metre; hour to minute).

I can plot specified points and draw sides to complete a given polygon.

I can translate shapes.

I can describe position on a 2-D grid as co-ordinates in the first quadrant.

I can complete a simple symmetric figure with respect to a specific line of symmetry.

I can identify lines of symmetry in 2-D shapes presented in different orientations.

I can compare and order angles up to two right angles by size.

I can identify acute and obtuse angles.

I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.

I can use a range of scales when interpreting and presenting data.

I can solve 'difference' problems using information presented in bar charts, pictograms, tables and simple line graphs.

I can solve 'sum' problems using information presented in bar charts, pictograms, tables and simple line graphs.

I can solve 'comparison' problems using information presented in bar charts, pictograms, tables and simple line graphs.

I can interpret and present data using line graphs.

I can interpret and present data using bar charts.

I can be flexible in choosing effective methods to answer questions.

I can understand and explain the methods I choose and produce accurate answers.

I can reason mathematically (verbal).

I can justify my answer or give proof using mathematical language (written).

I can solve problems using mathematical knowledge learnt.

I can break down problems into simpler steps to seek solutions.

Number, place value and rounding

Addition and Subtraction

Multiplication and Division

Fractions and Decimals

Measures

Geometry

Statistics

Problem Solving