



# Mathematics Programmes of Study

# 4

I can read Roman numerals to 100 (I to C) and understand how the numeral system changed.	I can solve mental calculations with increasingly large numbers.	I can solve problems involving multiplying and dividing.	I can solve simple measure and money problems involving fractions and decimals to two decimal places.	I can solve problems involving converting from hours to minutes; minutes to seconds; years to months and weeks to days.	I can plot specified points and draw sides to complete a given polygon.	I can use a range of scales when interpreting and presenting data.
I can solve number and practical problems using place value.	I can solve subtraction two-step problems deciding which operations and methods to use and why.	I can multiply three-digit numbers by a one-digit number.	I can compare numbers with the same number of decimal places.	I can read, write and convert time between analogue and digital 12 and 24-hour clocks.	I can translate shapes.	I can solve 'difference' problems using information presented in bar charts, pictograms, tables and simple line graphs.
I can round any number to the nearest 10, 100 or 1000.	I can solve addition two-step problems deciding which operations and methods to use and why.	I can multiply two-digit numbers by a one-digit number.	I can round decimals with 1 decimal place to the nearest whole number.	I can estimate, compare and calculate different measures, including money in pounds and pence.	I can describe position on a 2-D grid as co-ordinates in the first quadrant.	I can solve 'sum' problems using information presented in bar charts, pictograms, tables and simple line graphs.
I can identify, represent and estimate numbers.	I can use inverse s to check answers to calculations.	I can recognise and use factor pairs in mental calculations.	I can find the effect of dividing a number by 10 and 100 and identify the value of the digits in the answer.	I can identify lines of symmetry in 2-D shapes presented in different orientations.	I can complete a simple symmetric figure with respect to a specific line of symmetry.	I can solve 'comparison' problems using information presented in bar charts, pictograms, tables and simple line graphs.
I can order and compare numbers beyond 1000.	I can multiply together three numbers.	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 find the area of rectilinear shapes by counting.	I can identify acute and obtuse angles.	I can interpret and present data using line graphs.
I can recognise the place value of each digit in a 4-digit number.	I can use place value, known and derived facts to divide mentally.	I can add and subtract fractions with the same denominator.	I can recognise and write decimal equivalents of any number of 10ths or 100ths.	I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.	I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	I can interpret and present data using bar charts.
I can count backwards through zero to include negative numbers.	I can use place value, known and derived facts to multiply mentally.	I can identify, name and write equivalent fractions of a given fraction.	I can add and subtract fractions with the same denominator.	I can convert between different units of measure (e.g. Kilometre to metre; hour to minute).		
I can find 100 more or less than a given number.	I can subtract numbers with up to 4 digits using efficient written methods.	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 identify, name and write equivalent fractions of a given fraction.			
I can count in multiples of 6, 7, 9, 25 and 1000.	I can add numbers with up to 4 digits using efficient written methods.	I can recall $\times$ and $\div$ facts for multiplication tables up to $12 \times 12$ .				
<b>Number, place value and rounding</b>	<b>Addition and Subtraction</b>	<b>Multiplication and Division</b>	<b>Fractions and Decimals</b>	<b>Measures</b>	<b>Geometry</b>	<b>Statistics</b>