Number

Count in multiples of 6, 7, 9, 25 and 1,000
Find 1,000 more or less than a given number
Count backwards through 0 to include negative numbers
Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)
Order and compare numbers beyond 1,000
Identify, represent and estimate numbers using different representations
Round any number to the nearest 10, 100 or 1,000
Solve number and practical problems that involve all of the above and with increasingly large positive number
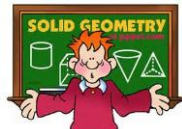
Year 4
End of year expectations

Geometry (including position and direction)

Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties
Identify acute and obtuse angles and compare and order angles up to 2 right angles by size
Identify lines of symmetry in 2-D shapes presented in different orientations
Complete a simple symmetric figure with respect to a specific line of symmetry
Describe positions on a 2-D grid as coordinates in the first quadrant
Describe movements between positions as translations of a given unit to the left/right and up/down
Plot specified points and draw sides to complete a given polygon

Statistics

Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

Calculation

Addition and Subtraction

Add and subtract numbers with up to 4 digits using the formal written methods of column addition and subtraction where appropriate
Estimate and use inverse operations to check answers to a calculation
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

Multiplication and Division

Recall multiplication and division facts for multiplication tables up to 12 × 12
Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers
Recognise and use factor pairs and commutativity in mental calculations
Multiply two-digit and three-digit numbers by a one-digit number using formal written layout
Divide two-digit numbers by a single digit (leading to short division)
Solve problems involving multiplying and division, including scaling problems
Solve problems involving division including questions such as 3 cakes shared equally between 10 children.

Fractions

Recognise and show, using diagrams, families of common equivalent fractions
Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
Add and subtract fractions with the same denominator
Recognise and write decimal equivalents of any number of tenths or hundreds
Recognise and write decimal equivalents to 1/4, 1/2, 3/4
Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths
Round decimals with 1 decimal place to the nearest whole number
Compare numbers with the same number of decimal places up to 2 decimal places
Solve simple measure and money problems involving fractions and decimals to 2 decimal places

Measurement

Convert between different units of measure [for example, kilometre to metre; hour to minute]
Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
Find the area of shapes, made up of rectangles, by counting squares
Estimate, compare and calculate different measures, including money in pounds and pence
Read, write and convert time between analogue and digital 12- and 24-hour clocks
Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days