



It is expected that all children are able to:

<u>Key Objectives</u>
Use negative numbers in context, and calculate intervals across zero
Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context
Use their knowledge of the order of operations to carry out calculations involving the four operations
Use common factors to simplify fractions
Compare and order fractions, including fractions greater than 1
Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Multiply simple pairs of proper fractions, writing the answer in its simplest form
Divide proper fractions by whole numbers
Associate a fraction with division and calculate decimal fraction equivalents for example, 0.375 for a simple fraction
Multiply one-digit number with up to two decimal places by whole numbers
Use written division methods in cases where the answer has up to two decimal places
Solve problems involving the calculation of percentages for example, of measures, and such as 15% of 360 and the use of percentages for comparison
Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts
Solve problems involving similar shapes where the scale factor is known or can be found
Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
Use simple formulae
Generate and describe linear number sequences
Express missing number problems algebraically
Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places
Convert between miles and kilometres
Calculate the area of parallelograms and triangles
Calculate, estimate and compare volume of cubes and cuboids using standard units
Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
Find unknown angles in any triangles, quadrilaterals, and regular polygons
Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
Describe positions on the full coordinate grid (all four quadrants)
Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
Interpret and construct pie charts and line graphs
Calculate and interpret the mean as an average