

**Mathematics**  
**Year 6 Key Objectives**

<ul style="list-style-type: none"><li>• 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</li></ul>
<ul style="list-style-type: none"><li>• Use their knowledge of the order of operations to carry out calculations involving the four operations</li></ul>
<ul style="list-style-type: none"><li>• Use common factors to simplify fractions</li></ul>
<ul style="list-style-type: none"><li>• Compare and order fractions, including fractions <math>&gt; 1</math></li></ul>
<ul style="list-style-type: none"><li>• Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</li></ul>
<ul style="list-style-type: none"><li>• Multiply simple pairs of proper fractions, writing the answer in its simplest form</li></ul>
<ul style="list-style-type: none"><li>• Divide proper fractions by whole numbers</li></ul>
<ul style="list-style-type: none"><li>• Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction</li></ul>
<ul style="list-style-type: none"><li>• Multiply one-digit number with up to two decimal places by whole numbers</li></ul>
<ul style="list-style-type: none"><li>• Use written division methods in cases where the answer has up to two decimal places</li></ul>
<ul style="list-style-type: none"><li>• Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison</li></ul>
<ul style="list-style-type: none"><li>• Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li></ul>
<ul style="list-style-type: none"><li>• Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</li></ul>
<ul style="list-style-type: none"><li>• Solve problems involving similar shapes where the scale factor is known or can be found</li></ul>
<ul style="list-style-type: none"><li>• Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li></ul>
<ul style="list-style-type: none"><li>• Use simple formulae</li></ul>
<ul style="list-style-type: none"><li>• Generate and describe linear number sequences</li></ul>
<ul style="list-style-type: none"><li>• Express missing number problems algebraically</li></ul>
<ul style="list-style-type: none"><li>• 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</li></ul>
<ul style="list-style-type: none"><li>• Convert between miles and kilometres</li></ul>

<ul style="list-style-type: none"><li>• Calculate the area of parallelograms and triangles</li></ul>
<ul style="list-style-type: none"><li>• Calculate, estimate and compare volume of cubes and cuboids using standard units</li></ul>
<ul style="list-style-type: none"><li>• Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</li></ul>
<ul style="list-style-type: none"><li>• Find unknown angles in any triangles, quadrilaterals, and regular polygons</li></ul>
<ul style="list-style-type: none"><li>• Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</li></ul>
<ul style="list-style-type: none"><li>• Describe positions on the full coordinate grid (all four quadrants)</li></ul>
<ul style="list-style-type: none"><li>• Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li></ul>
<ul style="list-style-type: none"><li>• Interpret and construct pie charts and line graphs</li></ul>
<ul style="list-style-type: none"><li>• Calculate and interpret the mean as an average</li></ul>