

My Maths Target Book



Year 6

MATHEMATICS Key Stage 2 Year 6

Number Place Value	<i>I can work with numbers up to 10 000 000 and know what each digit represents.</i>
	<i>I can round a whole number as requested - for example to the nearest 10 or 1000 or 100000.</i>
	<i>I understand and use negative numbers in my work, for example - working out how much is between -7 and +8.</i>
	<i>I can solve number and practical problems that involve large numbers, rounding and negative numbers.</i>
Multiplication Division	<i>I can multiply 4 digit numbers by a two-digit number (for example 4307 x 34) using the written method of long multiplication.</i>
	<i>I can divide 4 digit numbers by a two-digit number using the written method of long division - and tell you the remainder.</i>
	<i>I can choose to divide 4 digit numbers by a two-digit number using the written method of short division if this is possible.</i>
	<i>I can multiply, divide, add and subtract large numbers in my head.</i>
	<i>I identify common factors, common multiples and prime numbers.</i>
	<i>I know that addition, subtraction, multiplication and division should be carried out in a specific order when looking at problems.</i>
	<i>I can solve addition and subtraction multi-step problems, deciding where to add or subtract.</i>
	<i>I can solve problems involving addition, subtraction, multiplication and division.</i>
	<i>I always estimate my answer before I begin calculating - this helps me to check at the end to make sure I am correct.</i>
	Fractions
<i>I can compare and order fractions, including fractions greater than 1.</i>	
<i>I add and subtract fractions with different denominators and mixed numbers.</i>	
<i>I can multiply fractions such as $1/4 \times 1/2 = 1/8$.</i>	
<i>I know how to divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$].</i>	
<i>I can change a fraction into a decimal - for example, I can change $3/8$ to 0.375 by dividing 1 by 8 and multiplying by 3.</i>	
<i>I can multiply and divide numbers by 10, 100 and 1000 and know what each digit means up to three decimal places.</i>	
<i>I can multiply numbers such as 1.45 by a one digit number - for example 1.45×7.</i>	
<i>I use written division methods in cases where the answer has up to two decimal places.</i>	
<i>I can solve problems which include rounding to a required accuracy such as the nearest 10, 100 or 10000.</i>	
<i>I know the decimal value, percentage and fraction of a range of values - such as 0.5, 50 per cent and $1/2$.</i>	
Ratio	<i>I can solve problems about relative sizes (ratio).</i>
	<i>I can find the percentage of an amount - such as finding 15 per cent of 360.</i>

Ratio	<i>I can solve similar shape problems.</i>
	<i>I can solve problems about unequal sharing - such as 'I need four eggs and for every egg I need three spoonfuls of flour. How much flour do I need?'</i>
Algebra	<i>I know how to use simple formulae such as $n - 10 = 2$.</i>
	<i>I can create a sequence of numbers that follow a rule.</i>
	<i>I can use a letter (such as n or x) to show a missing number - such as $10 - x = 5$.</i>
	<i>I can find pairs of numbers that satisfy an equation with two unknowns.</i>
	<i>I can list possible answers to missing numbers such as listing the possible answers of a and b in $a + 6 = b - 10$.</i>
Measurement	<i>I solve problems about different units of measures with three decimal places.</i>
	<i>I can convert measurements of length, weight, volume and time up to three decimal places in length (for example $0.345\text{kg} = 345\text{g}$).</i>
	<i>I can convert between miles and kilometres.</i>
	<i>I know that even though shapes may have the same area, the perimeter may be different - or a shapes with the same perimeter may have a different areas.</i>
	<i>I can use a formulae for area and volume of shapes.</i>
	<i>I can calculate the area of parallelograms and triangles.</i>
	<i>I can work with the volume of cubes and cuboids using cubic centimetres (cm³) and cubic metres (m³), and other units too such as mm³ and km³.</i>
Shape	<i>I accurately draw 2-D shapes using given dimensions and angles.</i>
	<i>I can recognise, describe and build 3-D shapes, including making nets.</i>
	<i>I can classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.</i>
	<i>I know the parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.</i>
Position	<i>I can work with angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</i>
	<i>I can use the four quadrants in a coordinate grid.</i>
Statistics	<i>I can draw and translate shapes using coordinates or reflect a shape on the grid.</i>
	<i>I can use and construct pie charts and line graphs and use these to solve problems.</i>
	<i>I can calculate the mean as an average.</i>