

## Year 6 Maths I can statements

<u>Name:</u>	
<u>Number</u>	
<b>Number and Place value</b>	
I can read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.	
I can round any whole number to a required degree of accuracy.	
I can use negative numbers in context, and calculate intervals across zero.	
I can solve number and practical problems that involve all of the above.	
<u>Number</u>	
<b>Addition and Subtraction</b>	
I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	
I can perform mental calculations, including with mixed operation and large numbers.	
I can use their knowledge of the order of operations to carry out calculations involving the four operations.	
I can solve problems involving addition, subtraction, multiplication and division.	
I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	
<u>Number</u>	
<b>Multiplication and Division</b>	
I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.	
I can 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.	
I can divide numbers up to 5 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.	
I can identify common factors, common multiples and prime numbers.	
I can perform mental calculations, including with mixed operations and large numbers.	

I can use my knowledge of the order of operations to carry out calculations involving the four operations.	
I can solve problems involving addition, subtraction, multiplication and division.	
I can use estimation to check answers to calculations and determine (in the context of a problem) an appropriate degree of accuracy.	
<b><u>Number</u></b>	
<b>Fractions (including decimals and percentages)</b>	
I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination.	
I can compare and order fractions, including fractions $> 1$ .	
I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.	
I can multiply simple pairs of proper fractions, writing the answer in its simplest form.	
I can divide proper fractions by whole numbers (form $\frac{1}{3} \div 2 = \frac{1}{6}$ ).	
I can associate a fraction with division and calculate decimal fraction equivalents (0.375) for a simple fraction ( $\frac{3}{8}$ ).	
I can identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10,100 and 1000 giving answers up to three decimal places.	
I can multiply one-digit numbers with up to two decimal places by whole numbers.	
I can use written division methods in cases where the answer has up to two decimal places.	
I can solve problems which require answers to be rounded to specified degrees of accuracy.	
I can recall and use equivalences between simple fractions, decimals and percentages including in different contexts.	
<b><u>Measurement</u></b>	
I can solve problems involving the calculation and conversion of units of measure, using decimal notation, up to three decimal places where appropriate.	
I can 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.	
I can convert between miles and kilometres.	

I can recognise that shapes with the same areas can have different perimeters and vice versa.	
I can recognise when it is possible to use formulae for area and volume of shapes.	
I can calculate the area of parallelograms and triangles.	
I can calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres ( $\text{cm}^3$ ) and cubic metres ( $\text{m}^3$ ), and extending to other units, $\text{mm}^3$ and $\text{km}^3$ .	
<b><u>Geometry</u></b>	
<b><u>Properties of Shapes</u></b>	
I can draw 2-D shapes using given dimensions and angles.	
I can recognise, describe and build simple 3-D shapes, including making nets.	
I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilateral, and regular polygons.	
I can illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.	
I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles.	
<b><u>Geometry</u></b>	
<b><u>Position and Direction</u></b>	
I can describe positions on the full coordinate grid (all four quadrants).	
I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	
<b><u>Statistics</u></b>	
I can interpret and construct pie charts and line graphs and use these to solve problems.	
I can calculate and interpret the mean as an average.	
<b><u>Ratio and Proportion</u></b>	
I can solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.	
I can solve problems involving the calculation of percentages (15% of 360) and the use of percentages for comparison.	
I can solve problems involving similar shapes where the scale factor is known or can be found.	

I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	
<b><u>Algebra</u></b>	
I can use simple formulae.	
I can generate and describe linear number sequences.	
I can express missing number problems algebraically.	
I can find pairs of numbers that satisfy an equation with two unknowns.	
I can enumerate possibilities of combinations of two variables.	