

Year 6 Maths Programme of Study

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| I can use simple formulae expressed in words. | | | | | | |
| I can generate and describe linear number sequences. | | | | | | |
| I can recognise years written in Roman numerals. | I use estimation to check answers to calculations. | | | | | |
| I can read Roman numerals to 1000 (M). | I can solve problems involving any operation. | I can solve ratio and proportion problems involving unequal sharing and grouping. | | | | |
| I can express missing number problems algebraically. | I can solve addition and subtraction multi-step problems. | I can solve ratio and proportion problems involving the relative sizes of two quantities, including similarity. | I can recall and use equivalences between simple fractions, decimals and percentages. | I can calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed and cubic metres. | I can draw and translate simple shapes and reflect them in the axes. | I can convert kilometres to miles using a graphical representation. |
| I can find pairs of numbers that satisfy number sentences involving two unknowns. | I use knowledge of the order of operations to carry out calculations involving the four operations. | I can divide proper fractions by whole numbers (e.g. $1/3 \div 2 = 1/6$). | I can solve problems involving the calculation of percentages of whole numbers or measures such as 15% of 360. | I recognise when it is necessary to use the formulae for area and volume of shapes. | I can describe positions on the full co-ordinate grid (all four quadrants). | I can draw graphs relating two variables. |
| I can solve number problems and practical problems. | I can identify common factors, common multiples and prime numbers. | I can multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1/4 \times 1/2 = 1/8$). | I can solve problems which require answers to be rounded to specified degrees of accuracy. | I can calculate the area of parallelograms and triangles. | I can find unknown angles where they meet at a point, are on a straight line, and are vertically opposite. | I can calculate and interpret the mean as an average. |
| I can calculate intervals across '0' when using negative numbers. | I can calculate mentally, including with mixed operations and large numbers. | I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. | I can use written division methods in cases where the answer has up to 2 decimal places. | I can recognise that shapes with the same areas can have different perimeters and vice versa. | I can illustrate and parts of circles, including radius, diameter and circumference. | I can construct line graphs. |
| I can use negative numbers in context. | I can interpret remainders as whole number remainders, fractions, or by rounding. | I can associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $3/8$). | I can multiply one-digit numbers with up to 2 decimal places by whole numbers. | I can convert between miles and kilometres. | I can find unknown angles in any triangles, quadrilaterals and regular polygons. | I can interpret line graphs. |
| I can round any whole number. | I can divide numbers up to 4 digits by a 2-digit whole number using an efficient written method. | I can compare and order fractions, including fractions >1 . | I can multiply and divide numbers by 10, 100 and 1000 where the answers are up to 3 decimal places. | I use, read, write and convert between standard units of measure. | I can compare and classify geometric shapes based on their properties and sizes. | I can construct pie charts. |
| I can read, write, order and compare numbers up to 10,000,000. | I can multiply multi-digit numbers up to 4 digits by a 2 digit whole number using a written method. | I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination. | I can identify the value of each digit to three decimal places. | I can solve problems involving the calculation and conversion of units of measure, using decimal notation to 3 decimal places where appropriate. | I can recognise, describe and build simple 3-D shapes, including making nets. | I can interpret pie charts. |
| Number and Algebra | Addition, Subtraction, Multiplication and Division | Fractions, Ratio and Proportion | Fractions, Decimals and Percentages | Measures | Geometry | Data |