

Year 6 Maths



Number and Place Value

- ✓ I can read, write, order and compare numbers to at least 10,000,000 (ten million) and say the value of each digit.
- ✓ I can round any number to a required degree of accuracy.
- ✓ I can use negative numbers in context when looking at temperature or money: counting in jumps forwards and backwards through 0.
- ✓ I can solve number and practical problems that involve ordering and comparing numbers to 10,000,000, rounding to a required degree of accuracy, using negative numbers and calculating intervals across zero.

Multiplication and Division

- ✓ I can solve problems involving addition, subtraction, multiplication and division.
- ✓ I can multiply numbers of up to 4 digits by a two-digit number using a formal written method.
- ✓ I can divide numbers of up to 4 digits by a two-digit number using a formal written method of long division, showing remainders, fractions or rounding as appropriate.
- ✓ I can divide numbers of up to 4 digits by a two-digit number using a formal written method of short division, showing remainders, fractions or rounding as appropriate.
- ✓ I can solve addition and subtraction multi-step problems, deciding which operations and methods to use and explain why they were suitable.
- ✓ I can mentally calculate using a mix of the four operations and increasingly large numbers.
- ✓ I can identify common factors, multiples and prime numbers.
- ✓ I can use the order of importance of the four operations when answering questions.
- ✓ I can use estimating to check answers and problem solving.

Fractions

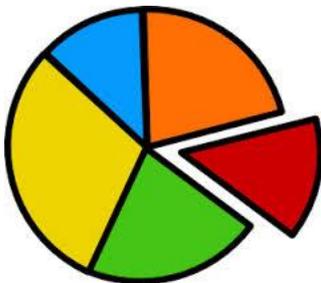
- ✓ I can use common factors and multiples to simplify fractions and express fractions in the same denomination.
- ✓ I can compare and order fractions including those bigger than 2.
- ✓ I can add and subtract fractions with different denominators and mixed numbers.
- ✓ I can multiply simple pairs of proper fractions, writing the answer in the simplest form such as $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$.
- ✓ I can divide proper fractions by whole numbers such as $\frac{1}{3} \div 2 = \frac{1}{6}$.
- ✓ I can link a fraction with division and work out decimal fractions such as 0.378 is $\frac{3}{8}$ as a simple fraction.
- ✓ I can explain the place value of any digit in a number with up to 3 decimal places and multiply or divide these by 10, 100 or 1000.
- ✓ I can multiply numbers less than 10 with up to 2 decimal places by whole numbers.
- ✓ I can solve problems which require answers to be rounded to specified degrees of accuracy.
- ✓ I can use written division methods for numbers with up to two decimal places.
- ✓ I can use equivalences between simple fractions, decimals and percentages to help me solve problems.

Properties of Shape

- ✓ I can draw 2-D shapes using dimensions and angles I am given.
- ✓ 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. I can also find unknown angles in any triangles, quadrilaterals or regular polygons.
- ✓ I can illustrate and name parts of circles, including radius, diameter and circumference. I 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. I can then find any missing angles

Statistics

- ✓ I can interpret and construct pie charts and line graphs. I can use these to solve problems.
- ✓ I can calculate and interpret the mean as an average.

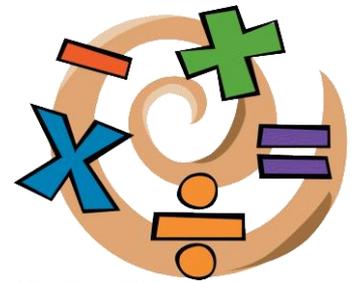


Ratio and Proportion

- ✓ I can solve problems that involve the relative sizes of two things where the missing number can be found by multiplying or dividing by whole numbers.
- ✓ I can solve problems involving the calculation of percentages. I can also use percentages for comparisons.
- ✓ I can solve problems involving shapes where the scale factor is known or can be found.
- ✓ I can solve problems involving unequal sharing and grouping. I can use my knowledge of fractions and multiples to do this.

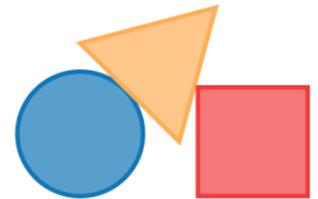
Addition and Subtraction

- ✓ I can mentally calculate using a mix of the four operations.
- ✓ I can solve problems with more than one step and operation and explain why I used them.
- ✓ I can solve addition and subtraction word and practical problems.
- ✓ I can use estimation to check answers to calculations and determine an appropriate degree of accuracy.



Position and Direction

- ✓ I can describe positions in all four quadrants on a full coordinate graph.
- ✓ I can draw and translate simple shapes on the coordinate plane and reflect these in the axis.



Measurement

- ✓ I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three places if I need to.
- ✓ I can use, read, write and convert between standard units.
- ✓ I can convert measurement of length, mass, volume and time from a smaller unit to a larger unit and vice versa. I can do this using decimal notation up to three decimal places.
- ✓ I can convert between miles and kilometres.
- ✓ I can recognise that shapes with the same area can have different perimeters and vice versa.
- ✓ I can recognise when it is possible to use formulae to find the areas or volumes of shapes.
- ✓ I can calculate the areas of parallelograms and triangles.
- ✓ I can calculate, estimate and compare volumes of cubes and cuboids using standard units, including cubic centimetres (cm^3), and cubic metres (m^3). I can extend this to other units e.g. mm^3 and km^3 .

Algebra

- ✓ I can use simple formulae.
- ✓ I can create and describe linear sequences.
- ✓ I can record missing number problems algebraically.
- ✓ I can find pairs of numbers which complete an equation with two unknowns.
- ✓ I can create a list of possibilities of the combination of two variables.



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