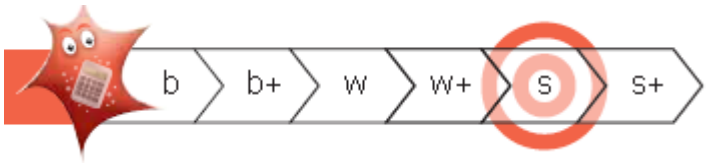
Maths - Band 6



Number & Place Value

I can read write, order and compare numbers up to at least 10,000,000 (ten million) and say the value of each digit.

Beginning ☐ End ☐

I can round any number to a required degree of accuracy.

Beginning ☐ End ☐

I can use negative numbers in context when looking at temperature or money, counting in jumps forwards and backwards through 0.

Beginning ☐ End ☐

I can solve number and practical problems that involve ordering and comparing numbers up to 10,000,000 (ten million) rounding to a required degree of accuracy, using negative numbers and calculating intervals across zero.

Beginning ☐ End ☐

Addition & Subtraction

I can mentally calculate using a mix of the four operations

Beginning ☐ End ☐

I can solve problems with more than one step and operation and explain why I use them.

Beginning ☐ End ☐

I can solve addition and subtraction word and practical problems.

Beginning ☐ End ☐

I can use estimation to check answers to calculations and determine an appropriate degree of accuracy.

Beginning ☐ End ☐

Multiplication & Division

I can multiply numbers of up to 4 digits by two-digit number using a formal written methods.

Beginning ☐ End ☐

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.

Beginning ☐ End ☐

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.

Beginning ☐ End ☐

I can mentally calculate using a mix of the four operations and increasingly large numbers.

Beginning ☐ End ☐

I can identify common factors, multiples and prime numbers.

Beginning ☐ End ☐

I can use the order of importance of the four operations when answering questions.

Beginning ☐ End ☐

I can solve addition and subtraction multi-step problems, deciding which operations and methods to use and explaining why they were suitable.

Beginning ☐ End ☐

I can solve problems involving addition, subtraction, multiplication and division.

Beginning ☐ End ☐

I can use estimating to check answers and problem solving.

Beginning ☐ End ☐

Fractions

I can use common factors and multiples to simplify fractions and express fractions in the same denominator.

Beginning ☐ End ☐

I can compare the order fractions including those bigger than 2.

Beginning ☐ End ☐

I can add and subtract fractions with different denominators and mixed numbers.

Beginning ☐ End ☐

I can multiply simple pairs of proper fractions, writing the answer in the simplest form such as $^1/_4 \times {}^1/_2 = {}^1/_8$

Beginning ☐ End ☐

I can divide proper fractions by whole numbers such as $^1/_3 \div 2 = {}^1/_6$

Beginning ☐ End ☐

I can link a fraction a fraction with division and work out decimal fractions such as 0.378 is $^3/_8$ as a simple fraction.

Beginning ☐ End ☐

I can explain the place value of any digit in a number with up to 3 decimal places and multiply or divide theses by 10, 100 or 1000.

Beginning ☐ End ☐

I can multiply numbers less than 10 with up to 2 decimal places by whole numbers.

Beginning ☐ End ☐

I can use written division methods for numbers with up to 2 decimal places.

Beginning ☐ End ☐

I can solve problems which require answers to be rounded to specified degrees of accuracy.

Beginning ☐ End ☐

I can use equivalences between simple fractions, decimals and percentages to help me solve problems.

Beginning ☐ End ☐

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.

Beginning ☐ End ☐

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 the three decimal places.

Beginning ☐ End ☐

I can convert between miles and kilometres.

Beginning ☐ End ☐

I can recognise that shapes with the same areas can have different perimeters and vice versa.

Beginning ☐ End ☐

I can recognise when it is possible to use formulae to find the areas or volumes of shapes.

Beginning ☐ End ☐

I can calculate the areas of parallelograms and triangles.

Beginning ☐ End ☐

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.

☐ ☐

Properties of Shape

I can draw 2-D shapes using dimensions and angles I am given.

Beginning ☐ End ☐

I can recognise, describe and build simple 3-D shapes, including making nets.

Beginning ☐ End ☐

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.

Beginning ☐ End ☐

I can illustrate and name parts of circles, including radius, diameter and circumference. I know that the diameter is twice the radius.

Beginning ☐ End ☐

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.

Beginning ☐ End ☐

Position & Direction

I can describe positions in all four quadrants on a full coordinate graph.

Beginning ☐ End ☐

I can draw and translate simple shapes on the coordinate plane and reflect these in the axis.

Beginning ☐ End ☐

Statistics

I can interpret and construct pie charts and line graphs. I can use these to solve problems.

Beginning ☐ End ☐

I can calculate and interpret the mean as an average.

Beginning ☐ End ☐

Ratio & 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.

Beginning ☐ End ☐

I can solve problems involving the calculation of percentages. I can also use percentages for comparisons.

Beginning ☐ End ☐

I can solve problems involving shapes where the scale factor is known or can be found.

Beginning ☐ End ☐

I can solve problems involving unequal sharing and grouping. I can use my knowledge of fractions and multiples to do this.

Beginning ☐ End ☐

Algebra

I can use simple formulae.

Beginning ☐ End ☐

I can create and describe linear number sequences.

Beginning ☐ End ☐

I can record missing number problems algebraically.

Beginning ☐ End ☐

I can find pairs of numbers which complete an equation with two unknowns.

Beginning ☐ End ☐

I can create a list of possibilities of the combination of two variables.

Beginning ☐ End ☐