

Maths

Steps to Success

5

Next Steps:

I can read Roman numerals 10 1000 (M) and recognize years written in Roman numerals.

I can solve number and practical problems that involve number

I can round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000

I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.

I can count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000

I can read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.

Number
place value

I can solve multi-step problems in context, decided which operations and methods and why.

I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.

I can subtract numbers mentally with increasing larger numbers

I can add numbers mentally with increasing larger numbers.

I can subtract whole numbers with more than 4 digits, including using the formal written method.

I can add whole numbers with more than 4 digits, including using the formal written method.

Number
+/-

I can solve a variety of problems that involve multiplication and division.

I can recognize and use square numbers and cube numbers, and the notation for squared and cubed.

I can multiply and divide whole numbers and those involving decimals by 10, 100, and 1,000.

I can divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context.

I can multiply and divide numbers mentally drawing upon know facts.

I can Multiply numbers up to 4 digits by a one-digit or two-digit number using a formal written method

I can establish prime and recall prime numbers whether a number up to 100 is up to 19.

I can know and use the vocabulary of prime numbers, prime factors and composite numbers.

I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.

Number
x/÷

I can recognize the percent symbol and understand that percent relates to 'number of parts per hundred' and write percentages as a fraction with the denominator 100 and as a decimal.

I can solve problems involving number up to 3 decimal places.

I can read, write, order and compare numbers to 3 decimal places.

I can round decimals to the nearest whole number and to one decimal place.

I can recognize and use thousandths and relate them to the tenths, hundredths and decimal equivalents.

I can read and write decimal numbers as fractions.

I can multiply proper fractions and mixed number fractions by whole numbers, supported by materials and diagrams.

I can add and subtract fractions with the same denominator and denominators that are multiples of the same number.

I can recognize mixed numbers and improper fractions and convert from one form to the other and write mathematical statements

I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.

I can compare and order fractions whose denominators are all multiples of the same number

Fractions

I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of ten or 25.

I can use all four operations to solve problems involving measure.

I can solve problems involving converting between units of time.

I can estimate volume and capacity

I can calculate and compare the area of rectangles, and including using standard units, square centimeters and square meters and estimate the area of irregular shapes.

I can measure and calculate the perimeter of composite rectilinear shapes in centimeters and meters.

I can understand and use appropriate equivalences between metric units and common imperial units

I can convert between different units of metric measure

Measurement

I can identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.

I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles.

I can use the properties of rectangles to deduce related facts and find missing lengths and angles.

I can identify other multiples of 90 degrees.

I can identify angles on a point on a straight line and half a turn (total 180 degrees)

I can identify angles at a point and one whole turn (total 360 degrees.)

I can draw given angles and measure them in degrees

I can estimate and compare acute, obtuse and reflex angles.

I know angles are measured in degrees

I can identify 3D shapes, including cubes and other cuboids, from 2D representations.

Geometry

I can complete, read and interpret information in tables, including timetables.

I can solve comparison, sum and difference problems using information presented in a line graph.

Statistics