

Maths

Steps to Success

4



I can read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value.

I can solve number and practical problems that involve all of the above and with increasingly large positive numbers

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

I can identify, represent and estimate numbers using different representations

I can order and compare numbers beyond 1,000

I can recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s and 1s)

I can count backwards through 0 to include negative numbers

I can find 1,000 more or less than a given number

I can count in multiples of 6, 7, 9, 25 and 1,000

I can solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

I can estimate and use inverse operations to check answers to a calculation

I can add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate

I can solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

I can multiply two-digit and three-digit numbers by a one-digit number using formal written layout

I can recognise and use factor pairs and commutativity in mental calculations

I can divide by 1; multiplying together 3 numbers

I can use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1

I can recall multiplication and division facts for multiplication tables up to 12×12

I can solve simple measure and money problems involving fractions and decimals to 2 decimal places.

I can compare numbers with the same number of decimal places up to 2 decimal places

I can round decimals with 1 decimal place to the nearest whole number

I can find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths

I can recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$

I can recognise and write decimal equivalents of any number of tenths or hundredths

I can add and subtract fractions with the same denominator

I can solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities

including non-unit fractions where the answer is a whole number

I can recognise that hundredths arise when dividing an object by a 100 and dividing tenths by 10

I can count up and down in hundredths;

I can recognise and show, using diagrams, families of common equivalent fractions

My next steps:

I can read, write and convert time between analogue and digital 12 and 24-hour clocks

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I can estimate, compare and calculate different measures, including money in pounds and pence

I can find the area of rectilinear shapes by counting squares

I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres

I can convert between different units of measure

I can complete a simple symmetric figure with respect to a specific line of symmetry

I can identify lines of symmetry in 2-D shapes presented in different orientations

I can identify acute and obtuse angles and compare and order angles up to 2 right angles by size

I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes

I can plot specified points and draw sides to complete a given polygon

I can describe movements between positions as translations of a given unit to the left/right and up/down

I can describe positions on a 2-D grid as coordinates in the first quadrant

I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs

Number place value

Number +/-

Number x/

Fractions

Measurement

Geometry

Statistics