

. = I'm starting to understand

/ = I'm nearly there

X = I fully understand

Mathematics Programmes of Study



I can recognise years written in Roman numerals.

I can read Roman numerals to 1000 (M).

I can solve number problems and practical problems.

I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100, 000.

I can use negative numbers in context and can count forwards and backwards with positive and negative numbers through 0.

I can count forwards or backwards in steps of powers of 10 for any given Number up to 1,000,000.

I know what each digit represents in numbers to 1,000,000.

I can read, write, order and compare numbers to at least 1,000,000.

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

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

I can use rounding to check answers to calculations.

I can subtract mentally using increasingly large numbers.

I can add mentally using increasingly large numbers.

I can subtract numbers with more than 4 digits using efficient written methods.

I can add numbers with more than 4 digits using efficient written methods.

I can solve problems including scaling by simple fractions and simple rates.

I can recognise an use square numbers and cube numbers.

I can X and ÷ whole numbers and those involving decimals by 10, 100 & 1000.

I can divide numbers up to 4 digits by a 1 digit number using an efficient written method.

I can X numbers up to 4 digits by a one or 2 digit number.

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

I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.

I can solve problems using multiplication and division.

I can identify multiples and factors, including finding all factor pairs.

I can write percentages as a fraction.

I can recognise the % symbol and understand what it means.

I can solve number problems up to 3 decimal places.

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

I can round decimals with 2 decimal places to the nearest whole number and to one decimal place.

I can recognise and use 1000ths and relate them to 10ths, 100ths and decimal equivalents.

I can read and write decimal numbers as fractions.

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

I can + and - fractions with the same denominator and related fractions.

I can recognise mixed numbers and improper fractions and convert from one form to another.

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

I can solve problems involving addition and subtraction of units of measures using decimal notation.

I can solve problems involving converting between units of time.

I can recognise and estimate volume and capacity.

I can estimate the area of irregular shapes.

I can calculate and compare the area of squares and rectangles.

I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.

I understand and use basic equivalences between metric and common imperial units.

I can convert between different units of measure (e.g. Kilometre to metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre).

I can distinguish between regular and irregular polygons.

I can state and use the properties of a rectangle to deduce related facts.

I can draw shapes using given dimensions and angles.

I can compare different angles.

I can identify reflex angles.

I can identify angles at a point and one whole turn.

I can identify angles at a point on a straight line and 1/2 a turn.

I can identify multiples of 90 degrees.

I can draw a given angle, writing its size in degrees.

I know angles are measured in degrees and can estimate and measure them.

I can identify 3-D shapes, including cubes and cuboids, from 2-D presentations.

I can present information using ICT.

I can read and interpret information in tables including timetables.

I can complete information in tables including timetables.

I can solve 'difference' problems using information presented in line graphs.

I can solve 'sum' problems using information presented in line graphs.

I can solve 'comparison' problems using information presented in line graphs.

Number, place value & rounding

Addition and Subtraction

Multiplication and Division

Fractions and Decimals

Measures

Geometry

Data