

Year 4 Curriculum Expectations - Maths

Number

Numbers and Place Value

I can count in multiples of 6, 7, 9, 25 and 1000.

I can find 1000 more or less than a given number.

I can count backwards through zero to include negative numbers.

I can recognise the place value of each digit in a four-digit number (THTO, HTO, TO, and O).

I can order and compare numbers beyond 1000.

I can identify, represent and estimate numbers using different representations.

I can round any number to the nearest 10, 100 or 1000.

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

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

Addition and Subtraction

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 estimate and use inverse operations to check answers to a calculation.

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

Multiplication and Division

I can recall multiplication and division facts up to 12 x 12.

I can use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

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

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

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

Number (Continued)

Fractions, Decimals and Percentages

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

I can count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.

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 add and subtract fractions with the same denominator.

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

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

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 round decimals with one decimal place to the nearest whole number.

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

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

Measurement

I can convert between different units of measure (e.g. kilometre to metre; hour to minute).

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

I can find the area of rectilinear shapes by counting squares.

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

Measurement (Cont)

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

I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Geometry

Properties of Shape

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

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

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

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

Position and Direction

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

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

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

Statistics

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

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