Number and Place Value

Calculations

Fractions, decimals and percentages

The Year 4 Mathematician
'I can…'

…count in multiples of 6, 7, 9, 25 and 100.

…find 1000 more or less than a given number.

…compare and order numbers beyond 1000.

…recognise the place value of each digit in a 4-digit number.

…read Roman numerals to 100 and know that over time the number system changed to include the concept of zero and place value.

…identify, represent and estimate numbers using different representations.

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

…solve number and practical problems using my knowledge of number and place value.

…count backwards through zero to include negative numbers.

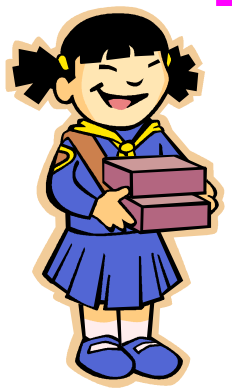
…add and subtract numbers with up to four digits, using formal written methods of columnar addition and subtraction.

…solve addition and subtraction 2-step problems in contexts, deciding which operations and methods to use and why.

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

…recall multiplication and division facts up to 12 x 12.

…solve problems involving multiplying and adding, including using the distributive law to multiply 2 digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.



…multiply 2 digit numbers by a 1 digit number using formal written layout.

…recognise and use factor pairs and commutativity in mental calculations.

…use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers.

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

…solve problems involving increasingly harder fractions and fractions to divide quantities, including non-unit fractions where the answer is a whole number.

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

…find the effect of dividing a 1 digit or 2 digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths or hundredths.

…compare numbers with the same number of decimal places up to 2 decimal places.

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

…recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$.

…add and subtract fractions with the same denominator.

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

…count up and down in hundredths.

…recognise that tenths arise from dividing an object by a hundred and dividing tenths by ten.

Measurement | Geometry – properties of shapes | Geometry – position and direction | Statistics

The Year 4 Mathematician
'I can…'

…compare different measures, including money in £ and p.

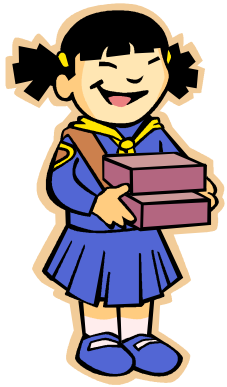
…estimate different measures, including money in £ and p.

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

…read, write and convert time between analogue and digital 12 hour clocks.

… calculate different measures, including money in £ and p.

…interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and line graphs.



…solve problems involving converting from hours to minutes; minutes to seconds; years to months and weeks to days.

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

…read write and convert time between analogue and digital 24 hour clocks.

…describe positions on a 2D grid as coordinates in the first quadrant.

…convert between different units of measurements.

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

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

…measure and calculate the perimeter of a rectilinear figure in cm and m.

…identify lines of symmetry in 2D shapes presented in different orientations.

…find the area of rectilinear shapes by counting squares.

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

…calculate different measures.

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