Information for Parents/Carers

MATHEMATICS TARGETS - A YEAR 4 MATHEMATICIAN

Number, place value, approximation and estimation/rounding

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

I can order and compare numbers beyond 1,000.

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

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

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

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

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

I can count backwards through zero to include negative numbers.

I can solve number and practical problems with the above (involving increasingly large numbers).

Calculations

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

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

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

I an recall multiplication and division facts up to 12x12.

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 recognise and use factor pairs and commutativity in mental calculations.

I can multiply 2-digit numbers by a 1-digit number using formal written layout.

I can 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.

Fractions, decimals and percentages

I an count up and down in hundredths.

I recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten.

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

I can add and subtract factions within the same denominator.

I recognise and write decimal equivalents to 1/4, 1/2 and ¾.

I recognise and write decimal equivalents of any number of tenths or 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 2 decimal places.

I can 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 and hundredths.

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

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

Measurement

I can compare different measures, including money in £ and p.

I can estimate different measures, including money in £ and p.

I can calculate different measures. Including money in £ and p.

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

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

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

I can convert between different units of measurements

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

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

I can calculate different measures

Geometry – properties of shapes

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

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

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

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

Geometry – position and direction

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 2D grid as coordinates in the first quadrant.

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.

Exceeding Year 4 Expectations

I can use tenths, hundredths and thousandths when comparing values and solving addition and subtraction problems.

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

I can relate tenths and hundredths to fractional values.

I can rapidly recall answer when multiplying and dividing a whole or decimal number by 10.

I can solve multi-step problems involving more than one of the operations.

I can work out simple percentage values of whole numbers, for example, as met in on-going learning in science, history and geography .

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

I can use a 24-hour timetable to find out times for journeys between various places.

I can use my knowledge of perimeter to work out the perimeter of large areas around school, using metres and centimetres.

I can collect my own data on a given project and present information in graphical formats of my choosing.