



Year 5 Maths Curriculum

PLACE VALUE	CALCULATIONS	FRACTIONS, DECIMALS and PERCENTAGES	MEASUREMENT	GEOMETRY	STATISTICS
Read and solve problems with negative numbers in context count forwards and backwards with positive and negative whole numbers, including through zero	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes	identify 3-D shapes, including cubes and other cuboids, from 2-D representations	complete, read and interpret information in tables, including timetables
count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	compare and order fractions whose denominators are all multiples of the same number	estimate volume (e.g. using 1 cm ³ blocks to build cubes and cuboids) and capacity (e.g. using water)	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	solve compare, sum and difference problems using information in a line graph
read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	Add and subtract monetary values to solve problems	read, write, order and compare numbers with up to three decimal places	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	use the properties of rectangles to deduce related facts and find missing lengths and angles	
recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram)	distinguish between regular and irregular polygons based on reasoning about equal sides and angles	
read Roman numerals to 1 000 (M) and recognise years written in Roman numerals	multiply and divide numbers mentally drawing upon known facts	read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$)	solve problems involving converting between units of time	draw given angles, and measure them in degrees (°)	



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round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	recognise the (%) symbol and know percent relates to “number of parts per hundred”, write %’s as a fraction with denominator 100 and as a decimal	understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	Identify angles at a point and one whole turn (total 360°)	
round decimals with two decimal places to the nearest whole number and to one decimal place	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication	add and subtract fractions with the same denominator and multiples of the same number	solve problems involving converting between units of time	Identify angles on a straight line as ½ turn and total 180°	
	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$)		identify, describe and represent the position of a shape following a reflection	
	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams		identify, describe and represent the position of a shape following a translation, using the appropriate language	
know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	establish whether a number up to 100 is prime and recall prime numbers up to 19	solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those with a denominator of a multiple of 10 or 25.			
	recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)				