



Number			
Number and Place Value	Addition and Subtraction	Multiplication & Division	Fractions (decimals & percentages)
Read, write and order numbers up to 10 000 000 and determine the value of each digit.	Use their knowledge of the order of operations to carry out calculations involving the four operations.	Multiply multi-digit numbers up to 4 digits by a two-digit whole number, using the formal written method of long multiplication.	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
Round any whole number to a required degree of accuracy.	Perform mental calculations, including those with mixed operations and large numbers.	Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.	Compare and order fractions, including fractions >1 .
Use negative numbers in context, and calculate intervals across zero.			Divide proper fractions by whole numbers.
			Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
		Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.	Multiply simple pairs of proper fractions, writing the answer in its simplest form.
		Identify common factors, common multiples and prime numbers.	Associate a fraction with division and calculate decimal fraction equivalents.
		Perform mental calculations, including with mixed operations and large numbers.	Identify the value of each digit in numbers given to 3 decimal places, and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places.
			Multiply one-digit numbers with up to 2 decimal places by whole numbers.



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			Use written division methods in cases where the answer has up to 2 decimal places.
			Recall and use equivalence between simple fractions, decimals and percentages, including those in different contexts.

Algebra	Ratio & Proportion
Uses simple formulae.	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
Generate and describe linear number sequences.	Solve problems involving the calculation of percentages (for examples, of measures, and such as 15% of 360) and the use of percentages for comparison.
Express missing number problems algebraically.	Solve problems involving unequal sharing and grouping, using knowledge of fractions and multiples.
Find pairs of numbers that satisfy an equation with two unknowns.	
Enumerate possibilities of combinations of two variables.	



Shape, Space and Measure, and Statistics			
Measurement	Geometry – Properties of shapes	Geometry – Position and direction	Statistics
Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit to a larger unit, and vice versa, using decimal notation to up to three decimal places.	Draw 2-D shapes using given dimensions and angles.	Describe positions of the full coordinate grid (all four quadrants).	Interpret and construct pie charts and line graphs and use these to solve problems.
Convert between miles and kilometers.	Recognise, describe and build simple 3_d shapes, including making nets.		Calculate and interpret the mean as an average.
Calculate the area of parallelograms and triangles.	Find unknown angles in any triangles, quadrilaterals and regular polygons.		
	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.		