



Number: Fractions (including Decimals and Percentages)

COUNTING IN FRACTIONAL STEPS					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	I know how to count in fractions up to 10, starting from any number and using the $\frac{1}{2}$ and $\frac{2}{4}$ equivalence on the number line	I know how to count up and down in tenths	I know how to count up and down in hundredths		
RECOGNISING FRACTIONS					
I know how to find and name a half as one of two equal parts of an object, shape or quantity	I know how to find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	I know how to find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	I know how that hundredths arise when dividing an object by one hundred and dividing tenths by ten	I know how to use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence)	
		I know how that tenths arise from dividing an object into 10 equal parts and in dividing one - digit numbers or quantities by 10.			
I know how to find and name a quarter as one of four equal parts of an object, shape or quantity		I know how to use fractions as numbers: unit fractions and non-unit fractions with small denominators			
COMPARING FRACTIONS					
		I know how to compare and order unit fractions, and fractions with the same denominators		I know how to compare and order fractions whose denominators are all multiples of the same number	I know how to compare and order fractions, including fractions >1



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COMPARING DECIMALS					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			I know how to compare numbers with the same number of decimal places up to two decimal places	I know how to read, write, order and compare numbers with up to three decimal places	I know how to identify the value of each digit in numbers given to three decimal places
ROUNDING INCLUDING DECIMALS					
			I know how to round decimals with one decimal place to the nearest whole number	I know how to round decimals with two decimal places to the nearest whole number and to one decimal place	I know how to solve problems which require answers to be rounded to specified degrees of accuracy
EQUIVALENCE (INCLUDING FRACTIONS, DECIMALS AND PERCENTAGES)					
	I know how to write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	I know how to show, using diagrams, equivalent fractions with small denominators	I know how to show, using diagrams, families of common equivalent fractions	I know how to identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	I know how to use common factors to simplify fractions; use common multiples to express fractions in the same denomination
			I know how to write decimal equivalents of any number of tenths or hundredths	I know how to read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$) I know how to use thousandths and relate them to tenths, hundredths and decimal equivalents	I know how to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$)
			I know how to write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$	I know the per cent symbol (%) and know that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100 as a decimal fraction	I know how to use equivalences between simple fractions, decimals and percentages, including in different contexts.



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ADDITION AND SUBTRACTION OF FRACTIONS

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		I know how to add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{6} + \frac{1}{7} = \frac{37}{42}$)	I know how to add and subtract fractions with the same denominator	I know how to add and subtract fractions with the same denominator and multiples of the same number I know what mixed numbers and improper fractions are. I know how to convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$)	I know how to add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

MULTIPLICATION AND DIVISION OF FRACTIONS

				I know how to multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	I know how to multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)
					I know how to multiply one-digit numbers with up to two decimal places by whole numbers
					I know how to divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$)



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MULTIPLICATION AND DIVISION OF DECIMALS

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					I know how to multiply one-digit numbers with up to two decimal places by whole numbers

			I know how to divide 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 know how to multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
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					I know the value of each digit to three decimal places. I know how to multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
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					I know how to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$)
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					I know how to use written division methods in cases where the answer has up to two decimal places
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PROBLEM SOLVING					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		solve problems that involve all of the above	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	solve problems involving numbers up to three decimal places	
			solve simple measure and	solve problems which	
			money problems involving fractions and decimals to two decimal places.	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.	