



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





number





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COMPARING DECIMALS						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
			compare numbers with the same number of decimal places up to two decimal places	read, write, order and compare numbers with up to three decimal places	identify the value of each digit in numbers given to three decimal places	
			ROUNDING INCLUDING DEC	CIMALS		
			round decimals with one decimal place to the nearest whole number	round decimals with two decimal places to the nearest whole number and to one decimal place	solve problems which require answers to be rounded to specified degrees of accuracy	
		1	(INCLUDING FRACTIONS, DECIN	1	6	
	write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	recognise and show, using diagrams, equivalent fractions with small denominators	recognise and show, using diagrams, families of common equivalent fractions	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	use common factors to simplify fractions; use common multiples to express fractions in the same denomination	
			recognise and write decimal equivalents of any number of tenths or hundredths	read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$) recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $^3/_8$)	
			recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$	recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and	recall and use equivalences between simple fractions, decimals and percentages,	





write percentages as a fraction with including in different contexts. denominator 100 as a decimal fraction **ADDITION AND SUBTRACTION OF FRACTIONS** Year 1 Year 2 Year 5 Year 6 Year 3 Year 4 add and subtract fractions add and subtract fractions add and subtract fractions add and subtract fractions with the same with the same with the same with different denominator within one denominator denominator and denominators and mixed

whole (e.g. ${}^{5}/_{7} + {}^{1}/_{7} = {}^{6}/_{7}$)	denominator	multiples of the same number recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5}$ = $\frac{1}{5}$)	numbers, using the concept of equivalent fractions
MULTIPLICATION AND I	DIVISION OF FRACTIONS	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$) multiply one-digit numbers with up to two
			decimal places by whole numbers





divide proper fractions by whole numbers (e.g. $\frac{1}{3}$; \div $2 = \frac{1}{6}$)

MULTIPLICATION AND DIVISION OF DECIMALS						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
			find the effect of dividing		multiply one-digit numbers with up to two decimal places by whole numbers multiply and 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		numbers by 10, 100 and 1000 where the answers are up to three decimal places	
					identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places	
					associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction	





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					$(e.g. ^3/_8)$			
					use written division methods in cases where the answer has up to two decimal places			
	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 money problems involving fractions and decimals to two decimal places.	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.				