



		COUNTING IN FR	ACTIONAL STEPS		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Pupils should count in fractions up to 10, starting from any number and using the1/2 and 2/4 equivalence on the number line (Non Statutory Guidance)	count up and down in tenths	count up and down in hundredths		
		RECOGNISIN	G FRACTIONS		
recognise, find and name a half as one of two equal parts of an object, shape or quantity	recognise, find, name and write fractions $1/3$ , $1/4$ , $2/4$ and $3/4$ of a length, shape, set of objects or quantity	recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10.	recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence)	
recognise, find and name a quarter as one of four equal parts of an object, shape or quantity		recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators			
	l 		<b>G</b> FRACTIONS	l	l
		compare and order unit fractions, and fractions with the same denominators		compare and order fractions whose denominators are all multiples of the same number	compare and order fractions, including fractions >1





Innovators in Mathematics







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	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	
			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	
		ΕΟΙ ΙΙΙΛΑΙ ΕΝΙCE	(INCLUDING FRACTIONS, DECIN		specified degrees of accuracy	
	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 recognise and write decimal equivalents of any number of tenths or hundredths	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and 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	use common factors to simplify fractions; use common multiples to express fractions in the same denomination associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction $(e.g. \frac{3}{8})$	
			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 write percentages as a fraction with denominator 100 as a decimal fraction	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	
		A	DDITION AND SUBTRACTION O	F FRACTIONS		









Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ )	add and subtract fractions with the same denominator	add and subtract fractions with the same denominator and 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. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5}$	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
				= 1 <sup>1</sup> / <sub>5</sub> )	
			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		







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					multiply one-digit numbers with up to two decimal places by whole numbers	
			find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths		multiply and divide 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 (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	solve problems involving	solve problems involving		





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involve all of the above	increasingly harder	numbers up to three
	fractions to calculate	decimal places
	quantities, and fractions	
	to divide quantities,	
	including non-unit	
	fractions where the	
	answer is a whole number	
	solve simple measure and	solve problems which
	money problems involving	require knowing
	fractions and decimals to	percentage and decimal
	two decimal places.	equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{2}{5}$ , $\frac{4}{5}$ , and those with a
		$^{2}/_{5}$ , $^{4}/_{5}$ and those with a
		denominator of a multiple
		of 10 or 25.





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