

## Number:



Counting in Fractional 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 the 1/2 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 and name a quarter as one of four equal parts of an object, shape or quantity	recognise, find, name and write fractions ${}^1l_3$ , ${}^1l_4$ , ${}^2l_4$ and ${}^3l_4$ 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 and use fractions as numbers: unit fractions and non-unit fractions with small denominators	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)		
Comparing Fractions						
		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	











## Number:



	Comparing Decimals						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
			compare numbers with the	read, write, order and compare numbers	identify the value of each digit		
			same number of decimal	with up to three decimal places	in numbers given to three		
			places up to two decimal	·	decimal places		
			places		·		
			Rounding (including deci	mals)			
			round decimals with one	round decimals with two decimal places	solve problems which require		
			decimal place to the nearest	to the nearest whole number and to one	answers to be rounded to		
			whole number	decimal place	specified degrees of accuracy		
		Equivalen	ce (including Fractions, Decimo	als and Percentages)			
	write simple fractions	recognise and show,	recognise and show, using	identify, name and write equivalent	use common factors to simplify		
	e.g. ½ of 6 = 3 and	using diagrams,	diagrams, families of	fractions of a given fraction, represented	fractions; use common		
	recognise the	equivalent fractions	common equivalent fractions	visually, including tenths and	multiples to express fractions in		
	equivalence of 2/4	with small		hundredths	the same denomination		
	and 1/2	denominators					
			recognise and write decimal	read and write decimal numbers as	associate a fraction with		
			equivalents of any number of	fractions (e.g. $0.71 = {}^{71}l_{100}$ )	division and calculate decimal		
			tenths or hundredths	100	fraction equivalents (e.g.		
					0.375) for a simple fraction		
				recognise and use thousandths and	(e.g. <sup>3</sup> / <sub>s</sub> )		
				relate them to tenths, hundredths and	. 2 .8		
				decimal equivalents			
			recognise and write decimal	recognise the per cent symbol (%) and	recall and use equivalences		
				understand that per cent relates to	between simple fractions,		
			equivalents to $^{1}/_{4};  ^{1}/_{2};  ^{3}/_{4}$	"number of parts per hundred", and	decimals and percentages,		
				write percentages as a fraction with	including in different contexts.		
				denominator 100 as a decimal fraction	including in different contexts.		
				denominator 100 as a decimal fraction			











## Number:



Addition and Subtraction of 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. $_{7}^{5}l_{7}^{1}+_{7}^{1}l_{7}^{2}=_{7}^{6}l_{7}^{3}$ )	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. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = \frac{1}{5}$ )	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	
		Multiplication and I	Division of Fractions	J		
				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. $^{1}I_{3} \div 2 = ^{1}I_{6}$ )	















Multiplication and Division of Decimals					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					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. <sup>3</sup> / <sub>8</sub> )
					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 ${}^{1}l_{2}$ , ${}^{1}l_{4}$ , ${}^{1}l_{5}$ , ${}^{2}l_{5}$ , ${}^{4}l_{5}$ and those with a denominator of a multiple of 10 or 25.		







