



## Maths Progression Map Fractions (incl. decimals and percentages)

	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Counting in fractional steps.				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		
Recognising Fractions		To make equal groups	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 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	
					recognise that tenths arise from dividing an object into 10 equal parts and in dividing			





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			one – digit numbers or quantities by 10			
		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		compare and order fractions whose denominators are all multiples of the same number	
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
Comparing Decimals				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





Ender Reverse						VERITAS
Rounding including Decimals				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
Equivalence including fractions decimals and percentages.		write simple fractions e.g. $1/_{2}$ of 6 = 3 and recognise the equivalence of $2/_{4}$ and $1/_{2}$ .	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. $0.71 = \frac{71}{100}$ )	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. ${}^{3}/{}_{8}$ )





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egr : rja				recognise and write decimal	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents recognise the per cent	recall and use equivalences
				equivalents to ${}^{1}/_{4}; {}^{1}/_{2}; {}^{3}/_{4}$	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	between simple fractions, decimals and percentages, including in different contexts.
Addition and Subtraction of Fractions			add and subtract fractions with the same denominator within one	add and subtract fractions with the same denominator	add and subtract fractions with the same denominator and multiples	add and subtract fractions with different denominators and mixed





Histop Revice					4 VERITAS
			whole (e.g. ${}^{5}/_{7}$ + ${}^{1}/_{7} = {}^{6}/_{7}$ )	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. ${}^{2}/{}_{5} + {}^{4}/{}_{5} = {}^{6}/{}_{5} =$ $1^{1}/{}_{5}$ )	numbers, using the concept of equivalent fractions
Multiplication and 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. $1/4 \times 1/2 =$ 1/8) multiply one- digit numbers with up to two decimal places





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				by whole
				numbers
				divide proper
				fractions by
				whole numbers
				(e.g. $^{1}/_{3} \div 2 =$
				<sup>1</sup> / <sub>6</sub> )
				· 6 /
Multiplication and			find the effect	 multiply and
Division of			of dividing a	divide numbers
decimals			one- or two-	by 10, 100 and
			digit number	1000 where the
			by 10 and 100,	answers are up
			identifying the	to three
			value of the	decimal places
			digits in the	1
			answer as	multiply one-
			ones, tenths	digit numbers
			and	with up to two
			hundredths	decimal places
				by whole
				numbers
				multiply and
				divide numbers
				by 10, 100 and
				1000 where the
				answers are up
				to three
				decimal places





La a del				VERILAS
				identify the
				value of each
				digit to three
				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
				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





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							up to two decimal places
Problem Solving	Solve real world problems	Solve real world problems		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	