Progression of Skills: Fractions (including decimals and percentages)



Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
Fractions	Fractions	Fractions	Fractions	Fractions	Fractions (including	Fractions (including	Fractions (including
					decimals)	decimals and	decimals and
Pupils should	Pupils should	Pupils should be	Pupils should be	Pupils should be		percentages)	percentages)
be taught to:	be taught to:	taught to:	taught to:	taught to:	Pupils should be taught		
					to:	Pupils should be taught	Pupils should be
Shows curiosity	Begins to	Recognise, find and	Recognise, find,	Count up and down in		to:	taught to:
about numbers by	identify own	name a half as one	name and write	tenths; recognise that	Recognise and show, using		
offering comments or	mathematical problems based	of two equal parts of an object, shape or	fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$	tenths arise from dividing an object into	diagrams, families of common equivalent fractions	Compare and order	Use common factors to
asking questions.	on own	quantity	and ³ / ₄ of a length,	10 equal parts and in	common equivalent fractions	fractions whose denominators are all	simplify fractions; use common multiples to
doming quoditorio.	interests and	quartity		dividing one-digit	Count up and down in	multiples of the same	express fractions in the
Shows an interest	fascinations.	Recognise, find and	shape, set of objects or quantity	numbers or quantities	hundredths; recognise that	number	same denomination
in number		name a quarter as	objects of quantity	by 10	hundredths arise when		
problems.	ELG	one of four equal	Write simple		dividing an object by a	Identify, name and write	Compare and order
	They solve	parts of an object,	fractions for	Recognise, find and	hundred and dividing tenths	equivalent fractions of a	fractions, including
	problems, including	shape or quantity	example, $\frac{1}{2}$ of 6 =	write fractions of a discrete set of	by ten	given fraction, represented	fractions >1
	doubling,		3 and recognise	objects: unit fractions	Solve problems involving	visually, including tenths and hundredths	Add and subtract
	halving and		the equivalence of	and non-unit fractions	increasingly harder fractions	and numereums	fractions with different
	sharing		2 1	with small	to calculate quantities, and	Recognise mixed numbers	denominators and mixed
			² / ₄ and ¹ / ₂	denominators	fractions to divide quantities,	and improper fractions and	numbers, using the
				Danamia and	including non-unit fractions	convert from one form to	concept of equivalent
				Recognise and use fractions as numbers:	where the answer is a whole	the other and write	fractions
				unit fractions and	number	mathematical statements >	Multiply simple pairs of
				non-unit fractions with	Add and subtract fractions	1 as a mixed number (for	Multiply simple pairs of proper fractions, writing
				small denominators	with the same denominator	example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} =$	the answer in its
						$1^{1}/_{5}$	simplest form (for
				Recognise and show,	Recognise and write decimal	Add and subtract fractions	example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)
				using diagrams,	equivalents of any number of	with the same denominator	$\frac{3}{4}$ $\frac{7}{2}$ $\frac{7}{8}$
				equivalent fractions with small	tenths or hundredths	and denominators that are	Divide proper fractions
				denominators	Recognise and write decimal	multiples of the same	by whole numbers (for
					equivalents to 4, 4, 3/	number	example, $\frac{1}{2} \div 2 = \frac{1}{6}$)
				Add and subtract	equivalents to , , /	Maddinkannana Carthan	6 λ α
				fractions with the		Multiply proper fractions	Associate a fraction with
				same denominator	Find the effect of dividing a one- or two-digit number by	and mixed numbers by whole numbers, supported	Associate a fraction with division and calculate
				within one whole (for	10 and 100, identifying the	by materials and diagrams	decimal fraction
				example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$	value of the digits in the		equivalents (for
					answer as ones, tenths and	Read and write decimal	example, 0.375) for a
				Compare and order	hundredths	numbers as fractions (for	simple fraction (for
				unit fractions, and		example, $0.71 = {}^{71}/{}_{100}$)	example, 3/°)
				fractions with the	Round decimals with one	Recognise and use	ō
				same denominators	decimal place to the nearest whole number	thousandths and relate	Identify the value of
				Solve problems that	Compare numbers with the	them to tenths, hundredths	each digit in numbers
			_	involve all of the	Compare Hambers Martine	and decimal equivalents	given to three decimal

above	same number of decimal		places and multiply and
	places up to two decimal	Round decimals with two	divide numbers by 10,
	places	decimal places to the	100 and 1000 giving
		nearest whole number and	answers up to three
	Solve simple measure and	to one decimal place	decimal places
	money problems involving		
	fractions and decimals to two	Read, write, order and	Multiply one-digit
	decimal places	compare numbers with up	numbers with up to two
	·	to three decimal places	decimal places by whole
		•	numbers
		Solve problems involving	
		number up to three decimal	Use written division
		places	methods in cases where
			the answer has up to
		Recognise the per cent	two decimal places
		symbol (%) and	·
		understand that per cent	Solve problems which
		relates to "number of parts	require answers to be
		per hundred", and write	rounded to specified
		percentages as a fraction	degrees of accuracy
		with denominator 100, and	,
		as a decimal	Recall and use
			equivalences between
		Solve problems which	simple fractions,
		require knowing	decimals and
		percentage and decimal	percentages, including
		equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$,	in different contexts
		$^{2}/_{5}$, $^{4}/_{5}$ and those with a	
		denominator of a multiple	
		of 10 or 25	