



Number: Fractions (including Decimals and Percentages)

COUNTING IN FRACTIONAL STEPS						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		<p><i>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)</i></p> <p>Unit 10 Book 2B</p>	<p>count up and down in tenths</p> <p>Unit 9 Book 3B</p>	<p>count up and down in hundredths</p> <p>Unit 10 Book 4B</p>		
RECOGNISING FRACTIONS						
	<p>recognise, find and name a half as one of two equal parts of an object, shape or quantity</p> <p>Unit 14 Book 1C</p>	<p>recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity</p> <p>Unit 10 Book 2B</p>	<p>recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</p> <p>Unit 9 Book 3B</p>	<p>recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten</p> <p>Unit 8 & 10 Book 4B</p>	<p>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence)</p> <p>Unit 11 Book 5B</p>	
			<p>recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10.</p> <p>Unit 9 Book 3B</p>			



Number: Fractions (including Decimals and Percentages)

	recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Unit 14 Book 1C		recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Unit 9 Book 3B			
COMPARING FRACTIONS						
			compare and order unit fractions, and fractions with the same denominators Unit 10 Book 3C		compare and order fractions whose denominators are all multiples of the same number Unit 8 Book 5B	compare and order fractions, including fractions >1 Unit 4 Book 6A
COMPARING DECIMALS						
EYFS	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 Unit 11 Book 4C	read, write, order and compare numbers with up to three decimal places Unit 11 Book 5B	identify the value of each digit in numbers given to three decimal places Unit 7 Book 6B
ROUNDING INCLUDING DECIMALS						
				round decimals with one decimal place to the nearest whole number Unit 11 Book 4C	round decimals with two decimal places to the nearest whole number and to one decimal place Unit 11 Book 5B	solve problems which require answers to be rounded to specified degrees of accuracy
EQUIVALENCE (INCLUDING FRACTIONS, DECIMALS AND PERCENTAGES)						
		write simple fractions	recognise and show,	recognise and show,	identify, name and	use common factors

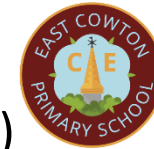


Number: Fractions (including Decimals and Percentages)

		e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$. Unit 10 Book 2C	using diagrams, equivalent fractions with small denominators Unit 10 Book 3C	using diagrams, families of common equivalent fractions Unit 8 Book 4B	write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Unit 11 Book 5B	to simplify fractions; use common multiples to express fractions in the same denomination Unit 4 Book 6A
				recognise and write decimal equivalents of any number of tenths or hundredths Unit 10 Book 4B Unit 11 Book 4C	read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$) Unit 11 Book 5B recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Unit 11 Book 5B	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$) Unit 7 & 8 Book 6B
				recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ Unit 11 Book 4C	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 Unit 11 Book 5B	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. Unit 8 Book 6B

ADDITION AND SUBTRACTION OF FRACTIONS

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
------	--------	--------	--------	--------	--------	--------



Number: Fractions (including Decimals and Percentages)

			<p>add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)</p> <p>Unit 10 Book 3C</p>	<p>add and subtract fractions with the same denominator</p> <p>Unit 9 Book 4B</p>	<p>add and subtract fractions with the same denominator and multiples of the same number</p> <p>Unit 9 Book 5B</p>	<p>add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p> <p>Unit 4 Book 6A</p>
					<p>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. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$)</p> <p>Unit 8 & 9 Book 5B</p>	
MULTIPLICATION AND DIVISION OF FRACTIONS						
					<p>multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</p> <p>Unit 10 Book 5B</p>	<p>multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)</p> <p>Unit 5 Book 6A</p>
						<p>multiply one-digit numbers with up to two decimal places by whole numbers</p> <p>Unit 7 Book 6B</p>



Number: Fractions (including Decimals and Percentages)

						divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$) Unit 5 Book 6A
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 Unit 7 Book 6B
				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 Unit 5 Book 4A		multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places Unit 7 Book 6B
						identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100



Number: Fractions (including Decimals and Percentages)

						and 1000 where the answers are up to three decimal places Unit 7 Book 6B
						associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$) Unit 7 Book 6B
						use written division methods in cases where the answer has up to two decimal places Unit 7 Book 6B
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 Unit 9 Book 4B	solve problems involving numbers up to three decimal places Unit 11 Book 5B	
				solve simple measure	solve problems which	



Number: Fractions (including Decimals and Percentages)

				and money problems involving fractions and decimals to two decimal places. Unit 12 Book 4C	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. Unit 11 Book 5B	
--	--	--	--	--	---	--