

Church Preen Primary School – Fractions, Decimals, Percentages

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fractions: Recognise and Write		<p>Recognise, find and name a half as one of two equal parts of an object, shape or quantity</p> <p>Recognise, name and find a quarter as one of four equal parts of an object, shape or quantity</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>Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10</p> <p>Recognise, find and write fractions of a discrete set of objects; unit fractions and non-unit fractions with small denominators</p> <p>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</p>	<p>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by 10</p>	<p>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</p> <p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statement >1 as a mixed number (for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1 \frac{1}{5}$)</p>	
Fractions: Compare			<p>Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$</p>	<p>Recognise and show, using diagrams, equivalent fractions with small denominators</p> <p>Compare and order unit fraction, and fractions with the same denominator</p>	<p>Recognise and show, using diagrams, families of common equivalent fractions</p>	<p>Compare and order fractions whose denominators are all multiples of the same number</p>	<p>Use common factors to simplify fractions; use common multiples to express fractions in the same denominator</p> <p>Compare and order fractions, including fractions >1</p>
Fractions: Calculations			<p>Write simple fractions, for example $\frac{1}{2}$ of $6 = 3$</p>	<p>Add and subtract fractions with the same denominator within 1 whole (for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)</p>	<p>Add and subtract fractions with the same denominator</p>	<p>Add and subtract fractions with the same denominator and denominators that are multiples of the same number</p> <p>Multiply proper fractions and mixed numbers by whole numbers,</p>	<p>Add and subtract fractions with the different denominators and mixed numbers, using the concept of equivalent fractions</p> <p>Multiply simple pairs of proper fractions, writing the answer in its simplest</p>

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						supported by materials and diagrams	form (for example $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$) Divide proper fractions by whole numbers (for example $\frac{1}{3} \div 2 = \frac{1}{6}$)
Fractions: Solve 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		
Decimals: Recognise and Write					Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents of $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$	Read and write decimals numbers as fractions (for example $0.71 = \frac{71}{100}$) Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Identify the value of each digit in numbers given to three decimal places
Decimals: Compare					Round decimals with one decimal place to the nearest whole number Compare numbers with the same number of decimal places up to two decimal places	Round decimals with two decimal places to the nearest whole number and to one decimal place Read, write, order and compare numbers with up to three decimal places	
Decimals: Calculations and Problems					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	Solve problems involving number up to three decimal places	Multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places Multiply one-digit numbers with up to two

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							<p>decimal places by whole numbers</p> <p>Use written division methods in cases where the answer has up to two decimal places</p> <p>Solve problems which require answers to be rounded to specified degrees of accuracy</p>
Fractions, Decimals and Percentages					<p>Solve simple measure and money problems involving fractions and decimals up to two decimal places</p>	<p>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, and as a decimal</p> <p>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 fractions with a denominator of a multiple of 10 or 25</p>	<p>Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example, $\frac{3}{8}$)</p> <p>Recall and use equivalences between simple fractions, decimals, and percentages, including in different contexts</p>