



Fractions Progression (including decimals, percentages, ratio & proportion)

	Key Stage 1 – (Year 1 & 2)	Lower Key Stage 2 - (Year 3 & 4)	Upper Key Stage 2 - (Year 5 & 6)
Recognising fractions	<ul style="list-style-type: none"> 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 $\frac{1}{2}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity. 	<ul style="list-style-type: none"> Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. 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. 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. Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. Compare and order unit fractions and fractions with the same denominators. 	<ul style="list-style-type: none"> Compare and order fractions whose denominators are all multiples of the same number. Compare and order fractions, including fractions > 1. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number. 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. Identify the value of each digit in numbers given to three decimal places. Solve problems involving number up to three decimal places. 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.



Eton Porny C. of E. First School

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Equivalence	<ul style="list-style-type: none">Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	<ul style="list-style-type: none">Recognise and show, using diagrams, families of common equivalent fractions.Recognise and write decimal equivalents of any number of tenths or hundredths.Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$.	<ul style="list-style-type: none">Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.Read and write decimal numbers as fractions.Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.Associate a fraction with division and calculate decimal fraction equivalents.Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.



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Solving problems	<ul style="list-style-type: none"> Write simple fractions for example, $\frac{1}{2}$ of 6 = 3. 	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator within one whole. Solve problems involving increasingly harder fractions. Calculate quantities and fractions to divide quantities (including non-unit fractions where the answer is a whole number). Add and subtract fractions with the same denominator. 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 simple measure and money problems involving fractions and decimals to two decimal places. 	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent 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. 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. Divide proper fractions by whole numbers. Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. <p>Ratio and proportion</p> <ul style="list-style-type: none"> Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving the calculation of percentages and the use of percentages for comparison. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.