

TO USE FRACTIONS (including decimals, percentages, ratio and proportion)

	Milestone 1	Milestone 2	Milestone 3
Recognising fractions	<ul style="list-style-type: none"> Recognise, find and name a half as one of two equal parts of a shape (Y1) Recognise, find and name a half as one of two equal parts of a set of objects (Y1) Count in halves $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2 ... Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Recognise, find, name and write $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$ of a shape (Y2) Recognise, find, name and write $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$ of a quantity (Y2) Recognise, find, name and write $\frac{3}{4}$ of a shape (Y2) Recognise, find, name and write $\frac{3}{4}$ of a quantity (Y2) 	<ul style="list-style-type: none"> Count up and down in tenths e.g. $\frac{1}{10}$, $\frac{2}{10}$, $\frac{3}{10}$... and 0.6, 0.7, 0.8... (Y3) Count up and down in hundredths (Y4) Count in quarters $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$, 1... Understand that tenths are objects or quantities divided into 10 equal parts (Y3) Find fractions of a set of objects e.g. $\frac{2}{5}$ or $\frac{3}{4}$ (Y3) Round decimals with one decimal place to the nearest whole number (Y4) Compare numbers with up to 2 decimal places (Y4) Understand that tenths are objects or quantities divided into 10 equal parts (Y3) Know that a hundredth is an object divided by 100 and tenths divided by 10 (Y4) 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 (Y5) Compare and order fractions, including fractions > 1 Convert mixed numbers to improper fractions (Y5) Convert improper fractions to mixed numbers (Y5) Round decimals with two decimal places to the nearest whole number and to one decimal place (Y5) Read, write, order and compare numbers with up to three decimal places (Y5) Recognise the per cent symbol (%) and write as a decimal and fraction (Y5)
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 equivalent fractions e.g. $\frac{3}{6} = \frac{1}{2}$ (Y3) Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ (Y4) 	<ul style="list-style-type: none"> Identify, name and write equivalent fractions of a given fraction, Read and write decimal numbers as fractions e.g. $0.71 = \frac{71}{100}$ (Y5) 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 Calculate decimal fraction equivalents for simple fractions e.g. $\frac{3}{8}$ is 0.375×3 (Y6) Recall and use equivalences between simple fractions, decimals and percentages (Y6)

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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 fractions with common denominators e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ (Y3) Subtract fractions with common denominators e.g. $\frac{6}{8} - \frac{4}{8} = \frac{2}{8}$ (Y3) Divide 1 or 2 digit number by 10 (Y4) Divide 1 or 2 digit number by 100 (Y4) Solve simple measure and money problems involving fractions and decimals to two decimal places 	<ul style="list-style-type: none"> Add fractions with denominators that are multiples of the same number (Y5) Subtract fractions with denominators that are multiples of the same number (Y5) Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions (Y6) Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams (Y5) Multiply simple pairs of proper fractions e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ writing the answer in its simplest form (Y6) Solve problems involving the calculation of any percentages (Y6) Divide proper fractions by whole numbers e.g. $\frac{1}{3}$ divided by 2 = $\frac{1}{6}$ (Y6) 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 using ratio using multiplication and division facts (Y6) Solve problems using proportion using multiplication and division facts Solve problems involving similar shapes where the scale factor is known or can be found
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