

<p><u>ORDERING DECIMALS</u></p> <p>Ensure all decimal numbers have the same number of digits <u>after</u> the decimal point (add zero's if not)</p> <p>EG: order smallest to biggest 0.210, 0.0201, 0.201</p> <p>0.2100, 0.0201, 0.2010</p> <p>Correct order: 0.0201, 0.2010, 0.2100</p>	<p><u>CONVERT BETWEEN FRACTIONS & DECIMALS</u></p> <p><u>FRACTION TO DECIMAL</u> Divide numerator by denominator</p> <p>EG: $\frac{2}{5} = 2 \div 5 = 0.40$</p> <p><u>DECIMAL TO FRACTION</u> Write the decimal as a fraction over 10, 100, 1000 etc (depending on how many digits there are after the decimal point)</p> <p>EG:</p> <ul style="list-style-type: none"> • 0.57 (2 digits after the decimal point so use 100) i.e. $\frac{57}{100}$ • 0.3 (1 digit after the decimal point so use 10) i.e. $\frac{3}{10}$ 	<p><u>ADD & SUBTRACT FRACTIONS</u></p> <p>Make sure the denominators are the same before adding/ subtracting. If not, multiply/ divide one or both fractions to make them the same.</p> <p>Add/ subtract <u>ONLY</u> the numerator (denominator stays the same)</p> <p>EG:</p> <ul style="list-style-type: none"> • $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ • $\frac{3}{4} - \frac{1}{5} = \frac{15}{20} - \frac{4}{20} = \frac{11}{20}$ <p>$\frac{3}{4}$ (x 5 top and bottom) = $\frac{15}{20}$</p> <p>$\frac{1}{5}$ (x top and bottom by 4) = $\frac{4}{20}$</p>
<p><u>CALCULATE THE FRACTION OF A QUANTITY</u></p> <p>Divide the amount by the denominator of the fraction, and then multiply this by the numerator.</p> <p>EG: Find $\frac{2}{3}$ of £63 $\pounds 63 \div 3 = \pounds 21$ $\pounds 21 \times 2 = \pounds 42$</p>	<p><u>CALCULATING PERCENTAGES OF AN AMOUNT</u></p> <p>'Per cent' means out of 100 Any percentage is a fraction with denominator of 100</p> <p>Convert the percentage to a fraction.</p> <p>Divide the amount by 100, then multiply by the numerator.</p> <p>EG: Find 20% of 250kg $20\% = \frac{20}{100} = \frac{2}{10} = \frac{1}{5}$ $\frac{1}{5}$ of 250kg = $250\text{kg} \div 5 = 50\text{kg}$</p>	<p><u>RECOGNISE AND USE EQUIVALENT FRACTIONS, DECIMALS & PERCENTAGES</u></p> <p>$100\% = \frac{1}{100} = 0.01$ $75\% = \frac{3}{4} = 0.75$ $50\% = \frac{1}{2} = 0.5$ $25\% = \frac{1}{4} = 0.25$ $10\% = \frac{1}{10} = 0.1$ $5\% = \frac{1}{20} = 0.05$ $1\% = \frac{1}{100} = 0.01$</p> <p>You can make any percentage from these facts</p> <p>EG: Find the equivalent fraction $0.75 = \frac{1}{4}$ $20\% = \frac{1}{5}$ $45\% = \frac{45}{100} = \frac{9}{20}$</p>
