

Percentages		Knowledge Organiser		
Key Vocabulary	Equivalent Fractions, Decimals and Percentages			Order Fractions, Decimals and Percentages
per cent (%) = 'out of 100'				$\frac{3}{10} > 25\% > 0.2$
percentage				
discount	$\frac{50}{100} = \frac{1}{2} = 0.5 = 50\%$	$\frac{25}{100} = \frac{1}{4} = 0.25 = 25\%$	$\frac{10}{100} = \frac{1}{10} = 0.1 = 10\%$	
equivalent fraction				
equivalent decimal				$\frac{30}{100} = 30\%$ $\frac{25}{100} = 25\%$ $\frac{20}{100} = 20\%$
convert	$\frac{75}{100} = \frac{3}{4} = 0.75 = 75\%$	$\frac{1}{100} = 0.01 = 1\%$	$\frac{20}{100} = \frac{2}{10} = 0.2 = 20\%$	$80\% = 0.8 = \frac{4}{5}$
compare				
order	<b>Fractions to Percentages</b>			
the whole				
				$\frac{80}{100} = 80\%$ $\frac{80}{100} = 80\%$ $\frac{80}{100} = 80\%$

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Finding a Percentage of an Amount			
$50\% = \frac{1}{2}$ so we can divide by 2	$10\% = \frac{1}{10}$ so we can divide by 10	$25\% = \frac{1}{4}$ so we can divide by 4	$1\% = \frac{1}{100}$ so we can divide by 100
<p>10% = 20</p>	<p>20% = 40</p>		
<p><b>35% of 200 = ?</b></p> <p>10% of 200 <math>200 \div 10 = 20</math></p> <p><math>20 \times 3 = 60</math> 30% = 60</p> <p><math>20 \div 2 = 10</math> 5% = 10</p> <p>35% = 30% + 5% <math>60 + 10 = 70</math> so 35% of 200 = <b>70</b></p>	<b>Percentages – Missing Values</b> <p>Whole value (100%) of bar model = ?</p> <p>0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%</p> <p>0 15 30 45 60 75 90 105 120 135 150</p> <p>10% = 15</p> <p>We know 10% = 15   <math>10\% \times 10 = 100\%</math> (the whole)   so <math>15 \times 10 = 150</math></p>		