

## Topic: Basic Percentages

Topic/Skill	Definition/Tips	Example
1. Percentage	<b>Number of parts per 100.</b>	31% means $\frac{31}{100}$
2. Finding 10%	To find <b>10%</b> , <b>divide by 10</b>	10% of £36 = $36 \div 10 = \text{£}3.60$
3. Finding 1%	To find <b>1%</b> , <b>divide by 100</b>	1% of £8 = $8 \div 100 = \text{£}0.08$
4. Percentage Change	$\frac{\text{Difference}}{\text{Original}} \times 100\%$	A games console is bought for £200 and sold for £250.  % change = $\frac{50}{200} \times 100 = 25\%$
5. Fractions to Decimals	<b>Divide the numerator by the denominator</b> using the bus stop method.	$\frac{3}{8} = 3 \div 8 = 0.375$
6. Decimals to Fractions	<b>Write as a fraction</b> over 10, 100 or 1000 and simplify.	$0.36 = \frac{36}{100} = \frac{9}{25}$
7. Percentages to Decimals	<b>Divide by 100</b>	$8\% = 8 \div 100 = 0.08$
8. Decimals to Percentages	<b>Multiply by 100</b>	$0.4 = 0.4 \times 100\% = 40\%$
9. Fractions to Percentages	Percentage is just a fraction out of 100. <b>Make the denominator 100 using equivalent fractions.</b> When the denominator doesn't go in to 100, use a calculator and <b>multiply the fraction by 100.</b>	$\frac{3}{25} = \frac{12}{100} = 12\%$  $\frac{9}{17} \times 100 = 52.9\%$
10. Percentages to Fractions	Percentage is just a fraction out of 100. <b>Write the percentage over 100</b> and simplify.	$14\% = \frac{14}{100} = \frac{7}{50}$