

Topic: Basic Percentages

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