| Topic/Skill | Definition/Tips | Example |
| :---: | :---: | :---: |
| 1. Increase or Decrease by a Percentage | Non-calculator: Find the percentage and add or subtract it from the original amount. <br> Calculator: Find the percentage multiplier and multiply. | Increase 500 by $20 \%$ (Non Calc): <br> $10 \%$ of $500=50$ <br> so $20 \%$ of $500=100$ $500+100=600$ <br> Decrease 800 by $17 \%$ (Calc): <br> $100 \%-17 \%=83 \%$ <br> $83 \% \div 100=0.83$ <br> $0.83 \times 800=664$ |
| 2. Percentage Multiplier | The number you multiply a quantity by to increase or decrease it by a percentage. | The multiplier for increasing by $12 \%$ is 1.12 <br> The multiplier for decreasing by $12 \%$ is 0.88 <br> The multiplier for increasing by $100 \%$ is 2 . |
| 3. Reverse Percentage | Find the correct percentage given in the question, then work backwards to find 100\% <br> Look out for words like 'before' or 'original' | A jumper was priced at $£ 48.60$ after a $10 \%$ reduction. Find its original price. $\begin{aligned} & 100 \%-10 \%=90 \% \\ & 90 \%=£ 48.60 \\ & 1 \%=£ 0.54 \\ & 100 \%=£ 54 \\ & \hline \end{aligned}$ |
| 4. Simple Interest | Interest calculated as a percentage of the original amount. | $£ 1000$ invested for 3 years at $10 \%$ simple interest. $10 \% \text { of } £ 1000=£ 100$ $\text { Interest }=3 \times £ 100=£ 300$ |

