



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. Calculator: Find the percentage multiplier and multiply.	<u>Increase 500 by 20% (Non Calc):</u> $10\% \text{ of } 500 = 50$ so $20\% \text{ of } 500 = 100$ $500 + 100 = 600$ <u>Decrease 800 by 17% (Calc):</u> $100\% - 17\% = 83\%$ $83\% \div 100 = 0.83$ $0.83 \times 800 = 664$
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 The multiplier for decreasing by 12% is 0.88 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% Look out for words like 'before' or 'original'	A jumper was priced at £48.60 after a 10% reduction. Find its original price. $100\% - 10\% = 90\%$ $90\% = £48.60$ $1\% = £0.54$ $100\% = £54$
4. Simple Interest	Interest calculated as a percentage of the original amount.	£1000 invested for 3 years at 10% simple interest. $10\% \text{ of } £1000 = £100$ Interest = $3 \times £100 = £300$