Topic: Calculating with Percentages

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