Topic: Calculating with Percentages

Topic/Skill	Definition/Tips	Example
1. Increase or		
	Non-calculator: Find the percentage	Increase 500 by 20% (Non Calc):
Decrease by	and add or subtract it from the	10% of 500 = 50
a Percentage	original 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% ÷ 100 = 0.83
		$0.83 \times 800 = 664$
2. Percentage	The number you multiply a quantity	The multiplier for increasing by
Multiplier	by to increase or decrease it by a	12% is 1.12
	percentage.	
		The multiplier for decreasing by
		12% is 0.88
		The multiplier for increasing by
		100% is 2.
3. Reverse	Find the correct percentage given	A jumper was priced at £48.60 after
Percentage	in the question, then work backwards	a 10% reduction. Find its original
rereentage	to find 100%	price.
		price.
	Look out for words like ` before' or	100% - 10% = 90%
	'original'	100 /0 - 10 /0 - 90 /0
	original	$90\% = \pounds 48.60$
		$1\% = \pm 0.54$
4 Circula	Interest coloulated as a memory to read	100% = £54
4. Simple	Interest calculated as a percentage of	-
Interest	the original amount.	simple interest.
		100/ -6 61000 - 6100
		$10\% \text{ of } \pounds 1000 = \pounds 100$
		.
		Interest = $3 \times \pounds 100 = \pounds 300$

