KS3 Unit 19 Percentages

Topic/Skill	Definition/Tips	Example
1. Percentage	Number of parts per 100.	
1. Tereentage	Number of parts per 100.	31% means $\frac{31}{100}$
2. Finding	To find 10%, divide by 10	$10\% \text{ of } \pounds 36 = 36 \div 10 = \pounds 3.60$
10%		
1070		
3. Finding 1%	To find 1%, divide by 100	$1\% \text{ of } \pounds 8 = 8 \div 100 = \pounds 0.08$
4. Percentage	Difference	A games console is bought for £200
Change	$\frac{Difference}{Original} \times 100\%$	and sold for £250.
8-	Original	
		$\frac{9}{2}$ shance = $\frac{50}{2} \times 100 = 250$
		% change = $\frac{50}{200} \times 100 = 25\%$
5. 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%
		$83\% \div 100 = 0.83$
		$0.83 \ge 800 = 664$
6. 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.
7. 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'	$90\% = \pounds 48.60$
		$1\% = \pounds 0.54$
		$100\% = \pounds 54$
8. 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 = $3 \times \pounds 100 = \pounds 300$
		$111101051 - 5 \times E100 = E300$