Topic/Skill	Definition/Tips	Example
1. Ratio	Ratio compares the size of one part to	3:1
	another part.	
2 Droportion	Written using the ':' symbol.	In a class with 12 have and 0 cirls
2. Proportion	Proportion compares the size of one part to the size of the whole .	In a class with 13 boys and 9 girls,
	part to the size of the whole.	the proportion of boys is $\frac{13}{22}$ and the
	Usually written as a fraction.	proportion of girls is $\frac{9}{22}$
3. Simplifying	Divide all parts of the ratio by a	5 : 10 = 1 : 2 (divide both by 5)
Ratios	common factor.	14:21=2:3 (divide both by 7)
4. Ratios in	Divide both parts of the ratio by one	$5 \cdot 7 - 1 \cdot 7$ in the form $1 \cdot n$
the form 1:	of the numbers to make one part	$5:7=1:\frac{7}{5}$ in the form 1: n
n or n:1	equal 1.	$5:7=\frac{5}{7}:1$ in the form n:1
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5. Sharing in a Ratio	1. Add the total parts of the ratio.	Share £60 in the ratio 3:2:1.
a Ratio	2. Divide the amount to be shared by this value to find the value of one part.	3 + 2 + 1 = 6
	3. Multiply this value by each part of	$60 \div 6 = 10$
	the ratio.	3 x 10 = 30, 2 x 10 = 20, 1 x 10 =
		10
	Use only if you know the total .	£30 : £20 : £10
6.	Comparing two things using	
Proportional Reasoning	multiplicative reasoning and applying this to a new situation.	30 minutes 60 pages
Reasoning	applying this to a new situation.	? minutes 150 pages
	Identify one multiplicative link and use	
	this to find missing quantities.	X 2
7. Unitary	Finding the value of a single unit	3 cakes require 450g of sugar to
Method	and then finding the necessary value by	_
	multiplying the single unit value.	needed to make 5 cakes.
		3 cakes = 450g
		So 1 cake = $150g (÷ by 3)$
		So 5 cakes = 750 g (x by 5)
8. Ratio	Find what one part of the ratio is	Money was shared in the ratio 3:2:5
already	worth using the unitary method .	between Ann, Bob and Cat. Given
shared		that Bob had £16, found out the
		total amount of money shared.
		£16 = 2 parts
		So £8 = 1 part
		3 + 2 + 5 = 10 parts, so 8 x 10 =
		£80
9. Best Buys	Find the unit cost by dividing the	8 cakes for £1.28 \rightarrow 16p each (÷by
	price by the quantity. The lowest number is the best value.	8)
	THE IOWEST HUITIDE IS THE DEST VAIGE.	



13 cakes for £2.05 \rightarrow 15.8p each
(÷by 13)
Pack of 13 cakes is best value.