Topic/Skill I	Definition/Tips	Example
	Ratio compares the size of one part to	3:1
a	another part.	
7	Written using the ':' symbol.	
	Proportion compares the size of one part to	In a class with 13 boys and 9 girls, the
	the size of the whole .	
	Usually written as a fraction.	proportion of boys is $\frac{13}{22}$ and the proportion of girls is $\frac{9}{22}$
	Divide all parts of the ratio by a common	5:10=1:2 (divide both by 5)
	factor.	14:21 = 2:3 (divide both by 7)
4. Ratios in the I	Divide both parts of the ratio by one of the	$5:7=1:\frac{7}{5}$ in the form 1: n
	numbers to make one part equal 1.	$5:7=\frac{5}{7}:1$ in the form n: 1
n: 1		$3 \cdot 7 - \frac{7}{7}$. I in the form if . I
	1. Add the total parts of the ratio.	Share £60 in the ratio 3 : 2 : 1.
	2. Divide the amount to be shared by this	
	value to find the value of one part.	$ 3 + 2 + 1 = 6 60 \div 6 = 10 $
	3. Multiply this value by each part of the ratio.	$3 \times 10 = 30, 2 \times 10 = 20, 1 \times 10 = 10$
	auto.	£30:£20:£10
J	Use only if you know the total .	
	Comparing two things using multiplicative	X 2
_	reasoning and applying this to a new	30 minutes 60 pages
S	situation.	? minutes 150 pages
I	Identify one multiplicative link and use this	
	to find missing quantities.	X 2
- 1	Finding the value of a single unit and then	3 cakes require 450g of sugar to make.
	finding the necessary value by multiplying	Find how much sugar is needed to
l tı	the single unit value.	make 5 cakes.
		3 cakes = 450 g
		So 1 cake = $150g (\div by 3)$
		So 5 cakes = $750 g (x by 5)$
	Find what one part of the ratio is worth	Money was shared in the ratio 3:2:5
already shared u	using the unitary method .	between Ann, Bob and Cat. Given that
		Bob had £16, found out the total amount of money shared.
		amount of money shared.
		£16 = 2 parts
		So £8 = 1 part
O Post Press	Find the unit cost by dividing the unit - L-	$3 + 2 + 5 = 10$ parts, so $8 \times 10 = £80$
_	Find the unit cost by dividing the price by the quantity .	8 cakes for £1.28 \rightarrow 16p each (÷by 8) 13 cakes for £2.05 \rightarrow 15.8p each (÷by
l L	= -	- · · · ·
	The lowest number is the best value.	13)