

Y8 Mastery Unit 8 – Direct & Inverse Proportion						Definition/Tips
						Shows the relative sizes of two or more
					_	values. E.G. I boy and 3 girls would be
Constant of Proportionality						
If two quantities are directly propertional, the multiplier between them is called the constant of propertionality					Inverse	Ine opposite or the reverse
If two quantities are directly proportional, the multiplier between them is called the constant of proportionality .					Dranartian	E.g. the inverse of addition is subfraction.
Example:		•			Proportion	two ratios or tractions that are equal.
		Pounds (lbs) and ouncos (oz) are				
lbs	OZ	directly proportional	IDS	ΟZ	Direct	Two quantities change in the same way.
					Proportion.	When one increases or decrease, so
		l bs oz				does the other one.
	16		- i	16 1		
•					Equation	Says that two things are the equal. $(1+1-2)$
		¦ 0				(1+1-2).
	1					
5	-		5	80	Linear	A graph that has a straight line.
Ŭ	1					
× 16						
		Therefore 16 is my constant of			Substitute	Putting values where the letters are.
		proportionality		16		5
		proportionality.		10		
					Constant of	A constant value relating to amounts
Unitary Method						
Sometimes the constant of proportionality is more challenging to find					Scalina	Multiplying or dividing two quantities by
If we scale it down to 1, then it is easy to then scale up to the augntity we need!						the same number
	Cost			Cost	Multiplicative	A relationship where two quantities can
Faas	(2)		Faas	(f)	Relationship	be expressed as a multiple of each
Lggs	(2)	Cost	<u> </u>			ofner.
8	20	Eggs (1)		20	Other topics	s/units this may appear in:
					Eraction	s
50	2			125	Percent	aaes
	Ŷ				Best Val	Ue
· · Exchange Rates						
					Proporti	on Recipes
$\div 8$ $\times 20$ $\div 8$ $\times 20$					Straight	Line Graphs
						Inverse Proportion