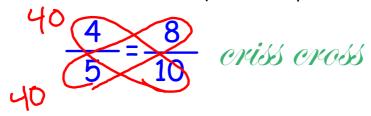
LESSON # 17 page 118 & 119 Proportional Situations

Situations that result in equivalent ratios or rates are called situation

	and Means on is composed	d of \mathcal{L} terms.	-	4		=	」 う
		AB=CD	F	1:B	; <u>C</u>	Exten : D	K2
The name _ The name _	extremes means	is given to the _ is given to the	A B	_ & _ _ & _	D C	_ terms. _ terms.	

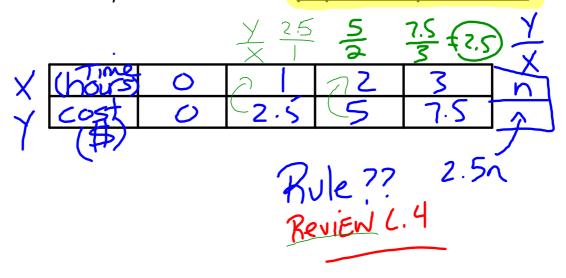
Check if proportional...... 1 method is.....

The product of the means is equal to the product of the extremes.



In a table of values, the numbers from both the 1^{st} and 2^{nd} row form a proportional series of numbers.

The numbers in the second row are obtained by multiplying the numbers of the first row by a number called the <u>proportionality coefficient</u>.

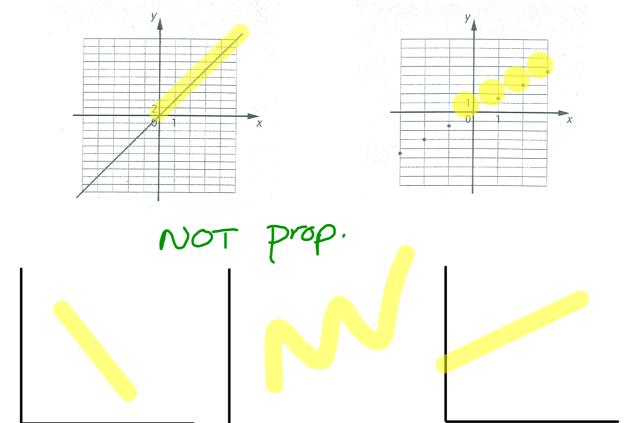


Graphs

The graph of a proportional situation is a straight line (oblique) that passes through the Origin of the cartesian plane, or points on a line that passes through the origin of a cartesian plane.

Ex.:





Ma	Nath 216		
Ra [*]	Ratios and Rates SHOW WOI	RK !	Name:
1.	. If two trucks have 36 wheels, how	many w	rheels will nine trucks have?
2.	2. If you earn \$45 in 5 h, how much w	ill you	earn in 8h?
3.	 3. For every 35kg of iron within the E 15kg of silicon. Express the following in lowest terms. a) mass of oxygen to mass of silicons b) mass of silicon to mass of iron c) mass of iron to mass of oxygen 	ng ratio	
4.	4. In one year, the Earth averages 2 cearthquakes of magnitude 7, 100 erfollowing ratios in lowest terms. a) earthquakes of magnitude 8 to earthquakes of magnitude 6 to be earthquakes of magnitude 8 to be earthquakes 0 to be eart	arthquo earthqu	akes of magnitude 6. Write the uakes of magnitude 7
	c) earthquakes of magnitude 6 to	earthq	uakes of magnitude 8
5.	 Find each of the following ratios in 1,2,3,,99 and 100. a) the number of even numbers to 		
	b) the number of multiples of 10 t	o the r	number of multiples of 5
	c) the number of multiples of 7 to	the nu	mber of multiplesof 3

a) 1 day to 1 yearb) 1 min to 1hc) 2 L to 500ml	1 cm to 200cm 1: 200
7. Determine whether a) 2:3 and 4:9	the ratios in each pair are equivalent. <u>Show Work</u> b) 1 : 2 and 2 : 1
c) 5:8 and 15:32	d) 20 : 5 and 8 : 2
_	gth of the human body to the length of the head is ngth of the head of a person who is 168 cm tall?
	h. How far did she drive in 4h? <u>Show Work</u>
Ans: 9. An aircraft flies 490	00 km in 7 h. How far will it fly in 4.5 h? Show Work
10) Which is a better b	uy? s for \$1.89 or 12 for \$2.89 <u>Show Work</u>
a) b granola bars	