

KEY

	Proportional	NON-Proportional
	Straight line through the Origin. (0,0)	
		origin.
C	Examples:	Examples:
Graph	x	
	1 1	ji ji
	$\chi \longleftrightarrow$	
	of the second se	
1 2	The ratio of $\frac{y}{x}$ is always	The ratio of $\frac{y}{x}$ is MOT always
e de ga	the <u>Same</u> .	the <u>Same</u> .
	Examples:	Examples:
	x y a)	X Y
Table	7 21 7 = 3	6 10 10 = 1.4 8 14 14 = 1.75
*	10 30 30 = 3 17 51 51 = 3	10 18 8 1.8
1 2 2 3		10
	x -10 2 12	x -1 1 2
÷ (y 5 16	y -6 -3 0

	Proportional	NON-Proportional
	y = <u>K</u> <u>X</u>	y = <u>m x</u> + <u>b</u>
	 → k is constant of proportionality; slope; "per" → x & y are a coordinate pair 	 → m is slope; "per" → b is y-intercept (NOT through origin) → x & y are a coordinate pair
Equation	Examples:	Examples:
· · · · · · · · · · · · · · · · · · ·	y = 4x	y = 3x + 5
	y = -0.75x	y = -0.5x - 1.5
	y = 1/2 x	y = -8x + 94
	There is <u>NOT</u> a "no matter	There 15 a "no matter what"
Situation	what" number; no <u>Flat</u> fee	number; there <u>IS</u> a flat fee
	Examples:	Examples:
	A new compact car can travel 288 miles on nine gallons of gasoline. How many gallons of gasoline would she need to travel 500 miles?	A bakery will decorate a cake for \$7.50 plus \$0.25 per word. How much would it cost to have the message "Congratulations on your retirement, Joan!" written on a cake?
	Alice is starting a babysitting business. She decides to charge her clients \$7 per hour to babysit. How much would she charge a family to babysit for 3 ½ hours?	A cleaning service charges \$15 per hour to clean houses, with a one-time supply fee of \$80. How much would the cleaning company charge if it took 4 hours to clean a house?