Practice with Functions and Tables

Just the Basics ~

is the

relation between 2 quantities that are proportional (they have t same unit rate).

represents the "constant of proportionality," or unit rate. As x and y values change, this stays th same.

When one variable

increases, the

other variable

If your y values are smaller than your x values, this means that k must be a

or a _____

<u>Practice Input/Output~</u> Using the given rules, find the missing x and y values.

1)
$$y = 9x$$

Х	0		3	5	8
у		18			

2)
$$y = 12x$$

Х	1		6		12
у		48		120	

3)
$$y = 1.25x$$

Х	0	2	4	6	8
У					

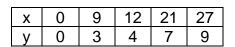
4)
$$y = \frac{2}{5}x$$

Х	0	4	9		20
У				4	

Practice Writing Rules~ Using the given values, determine the equations in terms of y = kx

5) Equation:__ How do you know this equation works? 6) Equation: _ How do you know this equation works?

Χ	0	1	2	3	4
^	0	5	10	15	20



) Rhea											
Si	ince tickets cost	: \$35, that	is the _		,	because	e this wo	n't cha	nge.		
	is the input (or i									ed.	
Υ	is the output (or	r depende	nt varia	ble), and	this is th	e total c	ost.			,	ADM TON
S	ince the constar	nt is 35, the	e equat	ion is					Oxa		
			·							DIR	
K	ule: y = 35x X (# tickets)	0	2	3		6					
	Y (total cost)				140			O CONTROL OF THE PARTY OF THE P			
:) Rocky	/ is saving up fo	r a new To	ony Hav	vk game	for his W	ii. He e	arns \$7.	50 for (each o	chore h	e d
W	/hat is k, the cor	nstant?									
X	, the input, is the	e number (of chore	s Rocky	complete	es.					
Y	, the output, is th	he amount	t of mor	ney Rock	y makes.						
	/hat is the equat sing this rule/eq										
	sing this rule/eq	uation, fill	in the v	alues in		below.					
	sing this rule/eq	uation, fill	in the v		the table		50				
	sing this rule/eq	uation, fill	in the v	alues in		below.					
3) There in sor	X (# chores con Y (total mone) a are 37 boys in the money. The the constant, is	ompleted) y earned) the drama y all want	in the v 0 club. to pitch	They wa in the sa	the table 75 nt to buy ame amore oing to check the table tab	new prount.	pps, so th	ney are	e all go	oing to p	pita
B) There in sor	X (# chores con Y (total mone) e are 37 boys in the money. The the constant, is the amount that the constant of the constant	the dramary all want s 37. This each boy k	in the v 0 a club. to pitch numbe	They wa in the sa	nt to buy ame amor	new prount.	50 ops, so th	ney are	e all go	oing to p	oito
B) There in sor	x (# chores con Y (total mone) e are 37 boys in the money. The constant, is the amount that the total amount	the dramary all want sa 37. This each boy to raised is to	o o o o o o o o o o o o o o o o o o o	They wa in the sar is not go is the inut, or the	nt to buy ame amor	new prount. nange. e valu	ops, so the	ney are	e all go	oing to p	pito
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