Name: Answers　　　　Class:

$\frac{y}{x}$ Rules the world!

Question 01

The table below shows a proportional relationship between x and y.

x	y
0	0
4	20
8	40
10	50

$\frac{20}{4} = 5$

$\frac{50}{10} = 5$

Find the constant of proportionality (r). Using the value for r, enter the equation in the form $y = rx$.

$y = 5x$

Question 02

The table below shows a proportional relationship between x and y.

x	y
0	0
3	6
4	8
6	12

$\frac{6}{3} = 2$

$\frac{8}{4} = 2$

Find the constant of proportionality (r). Using the value for r, enter the equation in the form $y = rx$.

$y = 2x$

Question 03

The table below shows a proportional relationship between x and y.

x	y
0	0
12	3
16	4
24	6

$\frac{3}{12} = 0.25$

$\boxed{\text{NOT } 4}$

Find the constant of proportionality (r). Using the value for r, enter the equation in the form $y = rx$.

$y = 0.25x$

Question 04

The table below shows a proportional relationship between x and y.

x	y
0	0
2	5
4	10
6	15

$\frac{5}{2} = 2.5$

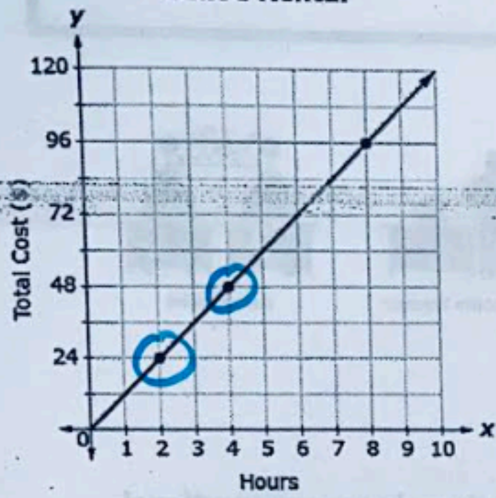
Find the constant of proportionality (r). Using the value for r, enter the equation in the form $y = rx$.

$y = 2.5x$

$\frac{y}{x}$ Rules the world!

Question 05

Canoe Rental



Part A. What is the constant of proportionality (r)?

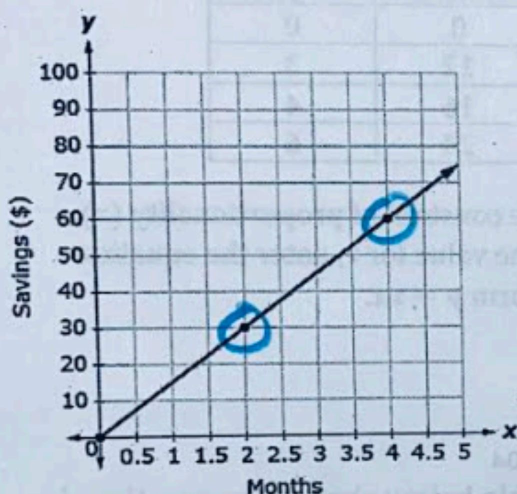
$\frac{48}{4} = 12$ $\frac{24}{2} = 12$ 12

Part B. Write the equation in $c = rh$ form where c is the total cost and h is the number of hours.

$c = 12h$

Part C. Write the unit rate coordinate. (1 , 12)

Question 06



Part A. What is the constant of proportionality (r)?

$\frac{60}{4} = 15$ $\frac{30}{2} = 15$ 15

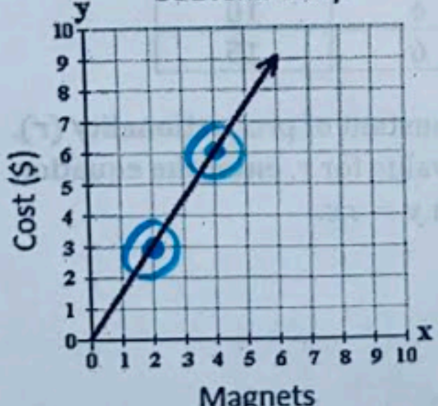
Part B. Write the equation in $s = rm$ form where s is the total savings and m is the number of months.

$s = 15m$

Part C. Write the unit rate coordinate. (1 , 15)

Question 07

Magnets bought at Souvenir Shop



Part A. What is the constant of proportionality (r)?

$\frac{6}{4} = 1.5$ $\frac{3}{2} = 1.5$ 1.5

Part B. Write the equation in $c = rm$ form where c is the cost and m is the number of magnets.

$c = 1.5m$

Part C. Write the unit rate coordinate. (1 , 1.5)