

Proportional Relationships - Graphs & Equations

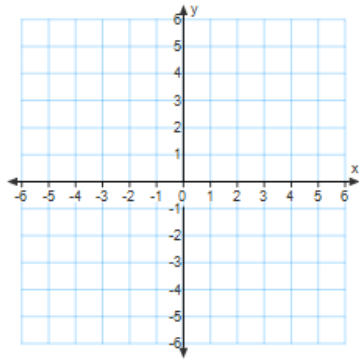
Does the data represent a proportional relationship? Graph the data to see what a proportional relationship looks like on a graph.

1.)

Hours, x	2	4	5	6
Miles, y	1	2	2.5	3

Proportional? _____

Graph the points. What special point does the line cross?

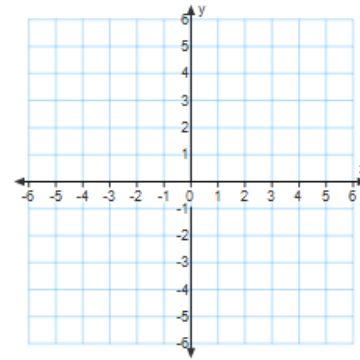


2.)

Weeks, x	1	2	3	4
Dollars, y	0	2	4	6

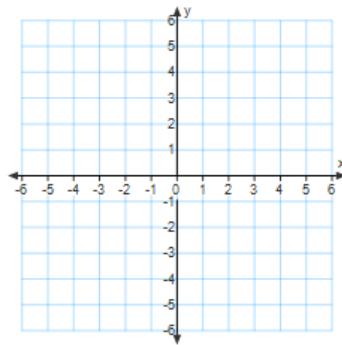
Proportional? _____

Graph the points. Does the line go through the origin?



The graph of a proportional relationship passes through the point (1, y). Find y.

3.) Given point: (3, 6)



4.) Given point: (38, 95)

5.) Write an equation of the proportional relationship.

x	2	2.5	3	3.5
y	8	10	12	14

$$y = \underline{\hspace{1cm}}x$$

6.) Write an equation of the proportional relationship.

x	2	5	8	11
y	1	2.5	4	5.5

$$y = \underline{\hspace{1cm}}x$$

Proportional Relationships Practice

Does this data represent a proportional relationship? Justify your answer with work.

1.)

Seconds	10	20	30	50
Feet	125	250	375	600

2.)

Months	2	4	6	10
Dollars	\$135	\$270	\$405	\$675

The graph of a proportional relationship passes through the point (1, y). Find y.

3.) Given point: (20, 80)

4.) Given point: (26, 78)

5.) Write an equation of the proportional relationship.

x	3	5	7	9
y	9	15	21	27

$$y = \underline{\hspace{1cm}}x$$

6.) Write an equation of the proportional relationship.

x	2	5	8	11
y	5	12.5	20	27.5

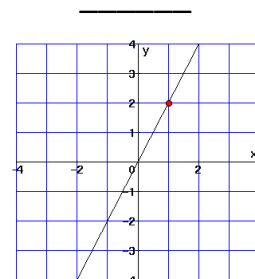
$$y = \underline{\hspace{1cm}}x$$

7.) Write an equation of the proportional relationship.

x	4	8	12	16
y	1	2	3	4

$$y = \underline{\hspace{1cm}}x$$

8.) Does the graph show a proportional relationship?



9.) Does the graph show a proportional relationship?

