

## Make a scatter plot of the data in the table.

d h

8

12

16

1.5 4

3

6



Graph of direct variation

• The graph must be a line that passes through the origin.

## Does each table of values represent a Direct Variation relationship?





**Direct Variation Equations:** 

$$\frac{y}{x} = k$$
 or  $y = kx$ 

Is each equation direct variation? If yes, find the variation constant.

2. 6 + 7y = 5 - 3x + 11. 4x + 2y = 10NO

$$6 + 7y = 6 - 3x$$
  
= 5 - 3x + 1  $7y = -3x$   
Yes  $y = -3x$ 

Given the table shows a direct variation relationship, find the value of ?.

Х To solve Direct Variation situations 4 you can use either equation 10 or you can use a Proportion

$$\frac{Y}{X} = \frac{Y}{X} = \frac{35}{78.75} = \frac{35}{78.75} = \frac{24}{35}$$

Use a Direct Variation Eq. 9/4 y=2.25 × y=2.25(35) y=-78.75

X

Υ

9

22.5

54

?

24

35

