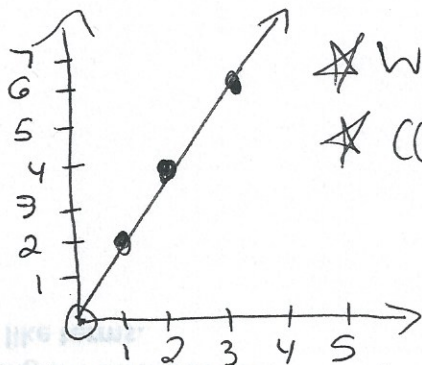


Graph: when  $x=1$ ,  $y = \text{constant of Prop.}$

x	y
1	2
2	4
3	6
4	



\* When  $x=1$ ,  $y = \underline{\hspace{2cm}}$

\* constant of Prop =                     

Hint: Proportional graphs always pass through the origin

Definition: exists when the \_\_\_\_\_ of 2 quantities in a \_\_\_\_\_, \_\_\_\_\_ or \_\_\_\_\_ simplify to the same \_\_\_\_\_.

Constant of Proportionality

Equation:

$$y = kx$$

↑  
constant of Proportionality

ex:  $y = 7x$

↑  
Constant of Proportionality

ex:  $y = \frac{2}{3}x$

constant of Proportionality is \_\_\_\_\_.

Table:  $\frac{y}{x} = \text{unit rate}$

x	y
3	21
4	28
5	35
8	56

① Find the unit rate:

$$\frac{y}{x} = \frac{21}{3} = 7$$

7 = constant of Proportionality

OR

② Find the unit rate:  
when  $x=1$ ,  $y = \text{Constant of Prop.}$

x	y
1	○ ←
2	_____
3	21
4	28

\_\_\_\_\_ is the Constant of Prop.

Hint: Constant of Prop is the number other than 1 in the unit rate!