Proportional Relationships

If two quantities are _____, then they have a _____ ratio.

If the ratio is not constant, the two quantities are said to be _____.

Constant of Proportionality is the value of two ratios.

How to identify proportional relationships:

1. Will always go through the _____. The origin is point _____.
2. The graph will be a _____ line.
3. Always write the constant ratio in the form of _____.
4. Reduce or divide the _____ by the _____ to find the constant ratio for each.

Every time you divide $\frac{y}{x}$ you get a _____ of ____.

x	y	$\frac{y}{x}$
5	10	
8	16	
10	20	
14	28	
21	42	

When the zero is the denominator, it is

_____.

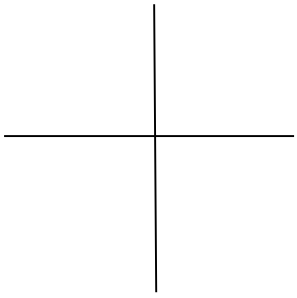
We can stop the problem because two

_____ do not have the _____

constant.

x	y	$\frac{y}{x}$
0	2	
3	8	
5	12	
9	20	
10	22	

Draw a line that would represent a proportional relationship on the graph below.



Tell if the ordered pairs represents a proportional relationship.

First, label each value as (x, y).

{(8, 4) , (10, 5) , (5, 2.5) , (12, 6)}

__, __ , __, __ , __, __ , __, __

What is the constant of proportionality?

The constant of proportionality is _____.