

I'm not robot!



Name: \_\_\_\_\_ Class (Period): \_\_\_\_\_ Date: \_\_\_\_\_

For each of the problems below,  $x$  varies directly with  $y$ . Write a direct variation equation for each situation.

- When  $x = 5$ ,  $y = 90$ . \_\_\_\_\_
- When  $x = 2.5$ ,  $y = 18$ . \_\_\_\_\_
- When  $x = 0.5$ ,  $y = 28$ . \_\_\_\_\_

For each of the problems below,  $x$  varies inversely with  $y$ . Write an inverse variation equation for each.

- When  $x = 6$ ,  $y = 3$ . \_\_\_\_\_
- When  $x = 21$ ,  $y = 1.7$ . \_\_\_\_\_
- When  $x = 1.1$ ,  $y = 3$ . \_\_\_\_\_

Write each direct variation equation.

- Mandi wants to buy flip-flops for all of her friends for graduation. They cost \$9.25 per pair. Write an equation to figure the cost for any number of pairs.

\_\_\_\_\_

- The scale on a map says 1/2 inch = 15 miles. Write an equation to show the number of miles per inch on the map.

\_\_\_\_\_

- A job at Yarnery Flavors has a commission rate of \$5.65 per hour. Write an equation to show how much you would earn based on the number of hours you work.

\_\_\_\_\_

Write each inverse variation equation.

- A group of high school students want to rent a party tent for their graduation party. The rental price is \$62 per evening. Write an equation to show the cost per person based on the number of people who finish in.

\_\_\_\_\_

- Two teenagers went to water-skiing. One weighs 115 pounds. She sits 30 feet from the center. Write an equation to show where the other should sit to balance the water-skiing based on her weight.

\_\_\_\_\_

- Carly's Concrete company is well into 48 more hours to repair a parking lot. Write an equation to show the elapsed time it will take based on the number of workers she puts on the job.

\_\_\_\_\_

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For help with this worksheet go to [Mathhelp.com](http://Mathhelp.com) Section 19 Lessons 1 & 2, 10 & 1 & 2.

2. The price per person of renting a bus varies inversely with the number of people renting the bus. It costs \$13 per person if 66 people rent the bus. How much will it cost per person if 94 people rent the bus?

$$P = \frac{K}{N} \quad \text{or} \quad 13 = \frac{K}{66} \quad P = \frac{858}{94}$$

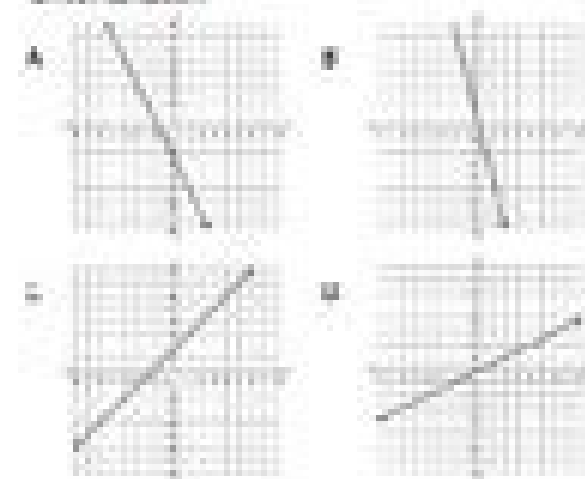
$$K = 858$$

## NOTES - FUNCTIONS AND GRAPHS

### Direct Variation

- Given the ordered pairs:  
(-11, 4), (4, -6), (3, 0), (2, -2)
- Find the constant of variation.
- Write the equation that represents this relationship.
- Find  $y$ , when  $x = -3$ , 1, and 2.

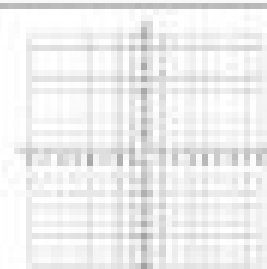
- If the following ordered pairs represent direct variation, find the missing value: (2, 8, 7) and (5, -4)
- Identify which of the following graphs represent direct variation.



### Inverse Variation

- Given the ordered pairs:  
(-4, 1), (1, 4), (2, 8), (3, 12)
- Find the constant of variation.
- Write the equation that represents this relationship.
- Find  $y$ , when  $x = 5$ , 10, and 15.

- If the following ordered pairs represent direct variation, find the missing value: (4, 8, 2) and (5, 5)
- Sketch a graph if the constant of variation is 4.









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