

## Direct Variation Functions **Key**

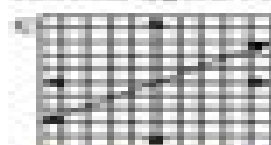
- All direct variation functions fit the formula  $y = mx$  or  $y = kx$ . The variable "m" is called the slope or rate of change. The variable "k" is called the "constant of proportionality". The slope, rate of change, and constant of proportionality all mean the same thing.

1. Answer the requested information about each problem:

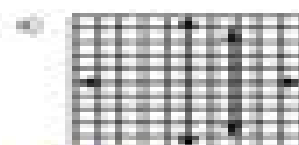
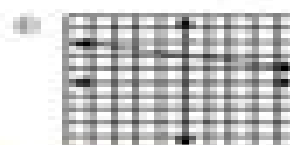
a) Is the direct variation function $y = 3x$ , what is the constant of proportionality?	b) Is the direct variation function $y = 4x$ , what is the rate of change?	c) Is the direct variation function $ky = 24k$ , what is the slope? (Hint: solve for y first.)	d) Is the direct variation function $y = \$8.25x$ , if $x = 1$ , what is y?	e) Is the direct variation function $y = 5x$ , what is x if $y = 20$ ?
<b>3</b>	<b>4</b>	<b>4</b>	<b>\$8.25</b>	<b>4</b>

- If you graph a direct variation function, the y-intercept must be zero. Also, the slope must be positive or negative, but not zero and not undefined.

2. For each graph below, first decide if it represents a direct variation function or not. If it does represent a direct variation function, say it is a direct variation function, and then write its slope as a number. If it does NOT represent a direct variation function, explain why it isn't.



b) The graph  $y = 3x$



Is it a direct variation function, the slope is **2**

Is it a direct variation function, the slope is **3**

Is it a direct variation function, the slope is **-2**

It is not a direct variation function, because it doesn't pass through the origin.

It is not a direct variation function, because it doesn't pass through the origin.

- If a relationship is direct variation, it means that the two quantities x, and y, are directly proportional to each other. In other words, you can always write  $y = [ ]x$ , with a number (not zero) in the box.

3. For each situation below, first decide if it represents a direct variation function or not. If it does represent a direct variation function, say it is a direct variation function, and then write its equation in the form  $y = mx$  or  $y = kx$  (That is, put a number in the box in the equation  $y = [ ]x$ ). If it does NOT represent a direct variation function, explain why it isn't.

a)

Cost of Movie Tickets		
People	x = Number of Tickets	y = Total Cost
1	1	\$18.00
2	2	\$36.00
3	3	\$54.00

It is a direct variation function whose equation is  **$y = \$18.00x$**

b)

Wages as a Function of Working Time		
People	x = Number of hours of working time	y = Earnings (wages)
1	1	\$10.00
2	2	\$20.00
3	3	\$30.00

It is not a direct variation function, because the ratios of y to x are not proportional.  $\frac{100}{1} = 100$ ,  $\frac{200}{2} = 100$ ,  $\frac{300}{3} = 100$

4. All direct variation graphs follow the equation  $y = mx$  or  $y = kx$ , where m, and k are called the slope, rate of change, and/or constant of proportionality.

a) Suppose we know that a movie ticket costs \$18.00. How much would it cost for 4 tickets?

**\$72**

b) How much would it cost for 10 tickets?

**\$180**

c) Describe, in words, how to calculate the cost of any number of tickets.

**Multiply the number of tickets by \$18.00**

d) If x = the number of tickets, and y = the cost of those tickets, write the equation of the direct variation function.

**$y = \$18.00x$**

# Keystone Mod A Direct Variation Answer Key

**Sir James Augustus Henry Murray**



**Keystone Mod A Direct Variation Answer Key:**

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