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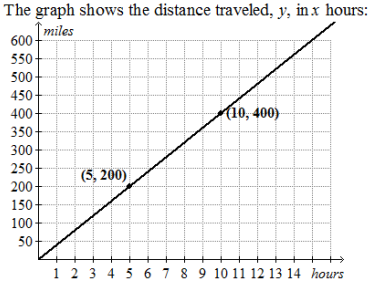
The graph shows the distance traveled, y, in x hours:



What is the rise-over-run value for the relationship represented in the graph?

a. 40
b. 45
c. 25
d. 70

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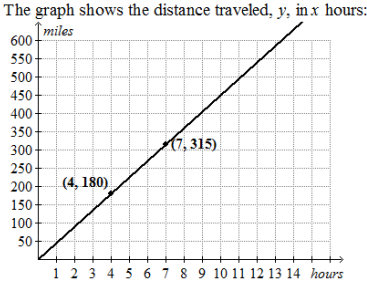
The graph shows the distance traveled, y, in x hours:



What is the rise-over-run value for the relationship represented in the graph?

a. 75
b. 25
c. 45
d. 50

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The table shows the number of candies packed by Machine C. The equation shows the number of candies packed by Machine D. In both representations, x is a measure of the number of minutes and y is a measure of the number of candies packed.

Machine C candy packing	
x (minutes)	y (candies)
2	180
3	270
6	540
8	720

Machine D: $y = 155x$

How many more candies could machine D pack than machine C in 18 minutes?

a. 1,235
b. 1,170
c. 1,200
d. 1,145

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The table shows the number of candies packed by Machine C. The equation shows the number of candies packed by Machine D. In both representations, x is a measure of the number of minutes and y is a measure of the number of candies packed.

Machine C candy packing	
x (minutes)	y (candies)
3	270
6	540
7	630
10	900

Machine D: $y = 145x$

How many more candies could machine D pack than machine C in 13 minutes?

a. 755
b. 715
c. 720
d. 660

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Two right triangles are graphed on a coordinate plane. One triangle has a vertical side of 4 and a horizontal side of 8. The other triangle has a vertical side of 13 and a horizontal side of 24. Could the hypotenuses of these two triangles lie along the same line?

a. Yes, because they are similar triangles
b. Yes, because they are both right triangles
c. No, because one is larger than the other
d. No, because they are not similar triangles

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Two right triangles are graphed on a coordinate plane. One triangle has a vertical side of 2 and a horizontal side of 6. The other triangle has a vertical side of 8 and a horizontal side of 24. Could the hypotenuses of these two triangles lie along the same line?

a. No, because they are not similar triangles
b. No, because one is larger than the other
c. Yes, because they are both right triangles
d. Yes, because they are similar triangles

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The equation shows the relationship between x and y:

$y = 5x - 7$

What is the slope of the equation?

a. -7
b. 5
c. -5
d. 7

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The equation shows the relationship between x and y:

$y = 2x + 4$

What is the slope of the equation?

a. 4
b. -4
c. -2
d. 2

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Calysta sells used video games. In addition to a fixed salary, she earns a commission for each video game she sells. The table shows Calysta's total earnings, y, (in dollars), from selling x video games:

Video Games and Earnings	
Games sold (x)	Total Earnings (y)
1	71
4	92
5	99

Which equation **best** shows the relationship between x and y?

a. $y = 8x + 64$
b. $y = 7x + 64$
c. $y = 7x + 65$
d. $y = 8x + 65$

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Calysta sells used video games. In addition to a fixed salary, she earns a commission for each video game she sells. The table shows Calysta's total earnings, y, (in dollars), from selling x video games:

Video Games and Earnings	
Games sold (x)	Total Earnings (y)
1	78
2	80
4	84

Which equation **best** shows the relationship between x and y?

a. $y = 3x + 75$
b. $y = 2x + 75$
c. $y = 3x + 76$
d. $y = 2x + 76$

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Sarah has been running a dog-walking business since 2007. She walks dogs twice a day, takes them to the park, and returns them to their homes. Each year, she has increased her fee by the same amount. The table shows what Sarah charged each customer for two given years of her business:

Year	Anual Dog-walking fee
2007	450
2010	720

A. What is the rate of change and initial value for Sarah's business? How do you know?

B. Write an equation in slope-intercept form to represent the fees that Sarah charges each year.

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Sarah has been running a dog-walking business since 2010. She walks dogs twice a day, takes them to the park, and returns them to their homes. Each year, she has increased her fee by the same amount. The table shows what Sarah charged each customer for two given years of her business:

Year	Anual Dog-walking fee
2010	465
2012	665

A. What is the rate of change and initial value for Sarah's business? How do you know?

B. Write an equation in slope-intercept form to represent the fees that Sarah charges each year.