

Expressions & Equations

Task Cards 8.EE.6

20 Task Cards, Recording Sheet, Answer Sheet

8.EE.6

Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b .

17 Write the equation for the following line. BE SURE TO LOOK AT HOW THE GRAPH IS SCALED!

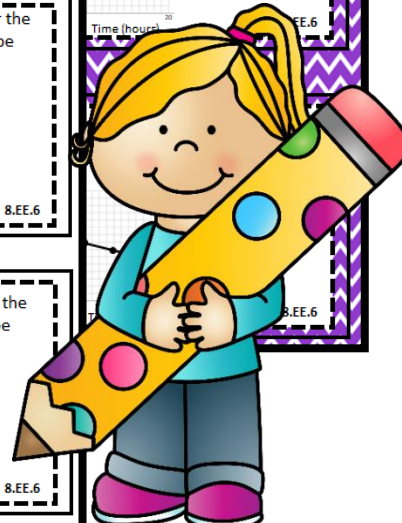
18 Write the equation for the following line. BE SURE TO LOOK AT HOW THE GRAPH IS SCALED!

5 Write the equation for the following line in slope intercept form:

6 Write the equation for the following line in slope intercept form:

7 Write the equation for the following line in slope intercept form:

8 Write the equation for the following line in slope intercept form:



Created by:
Math in the Midwest

8.EE.6

Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b .

1

What is the equation for slope intercept form?

8.EE.6

2

True or False

Similar triangles can be used to show why the slope is the same between any two points on a non-vertical line.

8.EE.6

3

True or False

The variable m in slope intercept form represents y -intercept.

8.EE.6

4

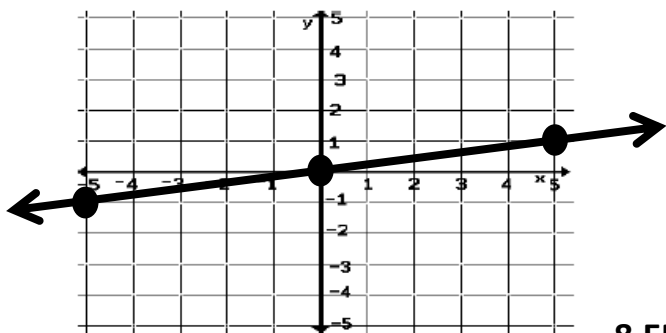
True or False

The variable b in slope intercept form represents the slope.

8.EE.6

5

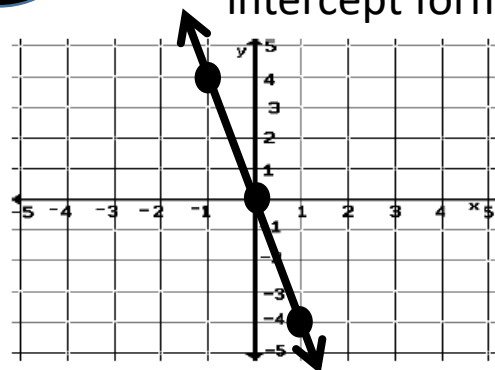
Write the equation for the following line in slope intercept form:



8.EE.6

6

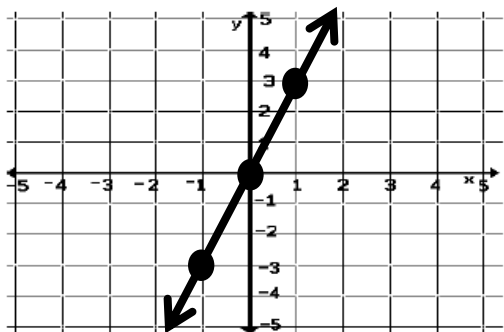
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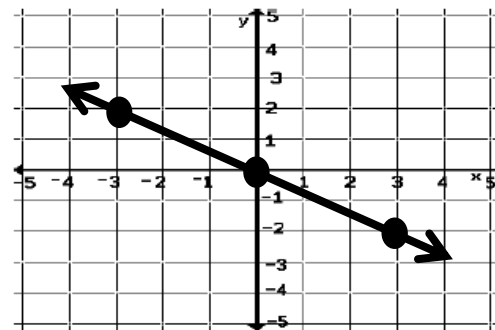
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8.EE.6

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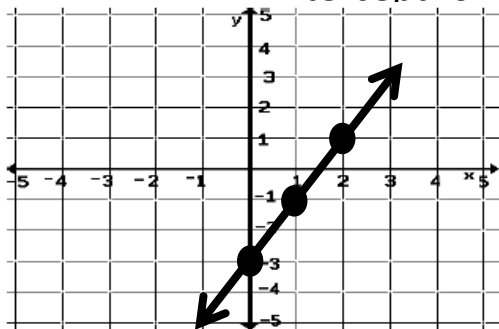
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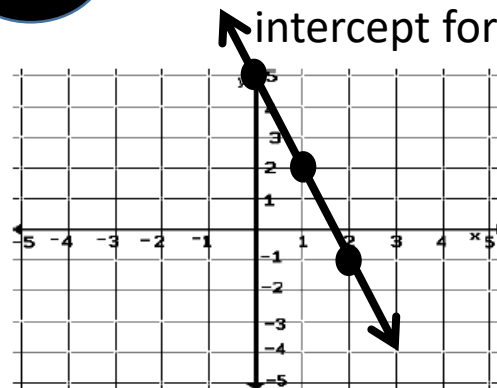
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8.EE.6

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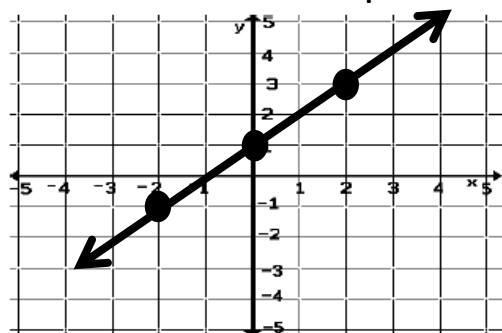
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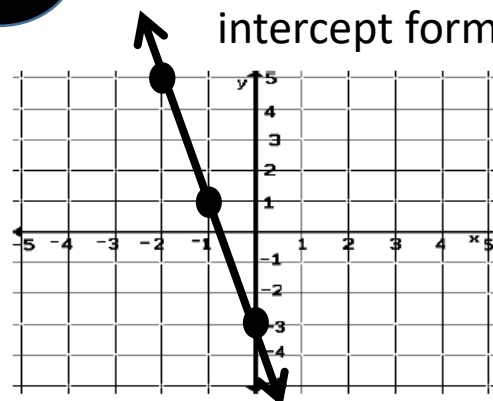
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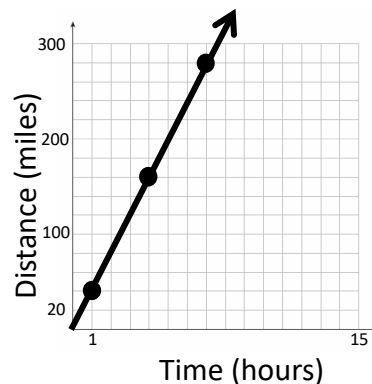
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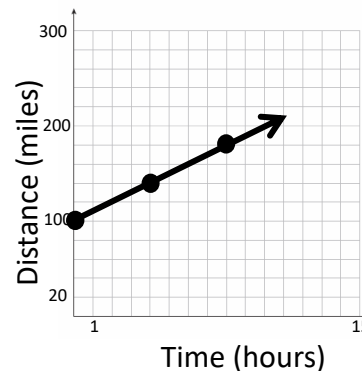
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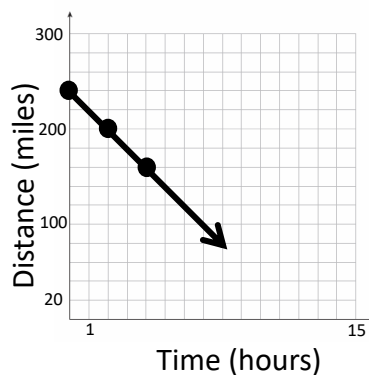
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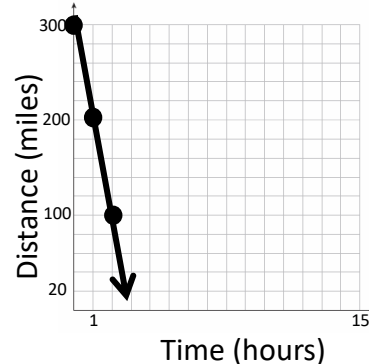
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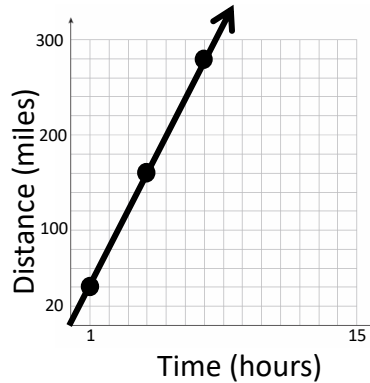
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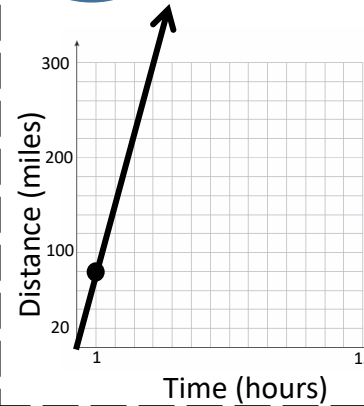
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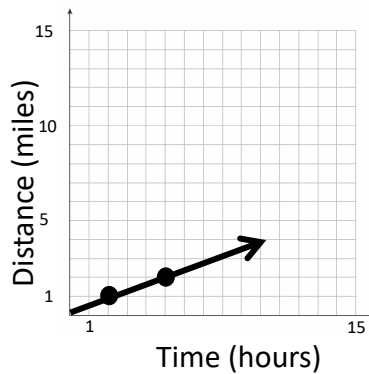
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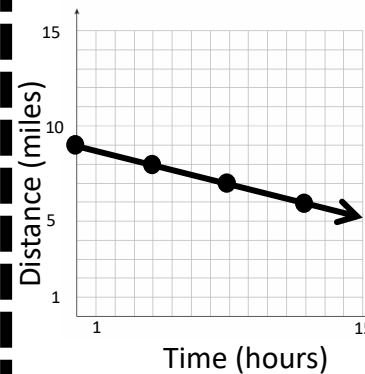
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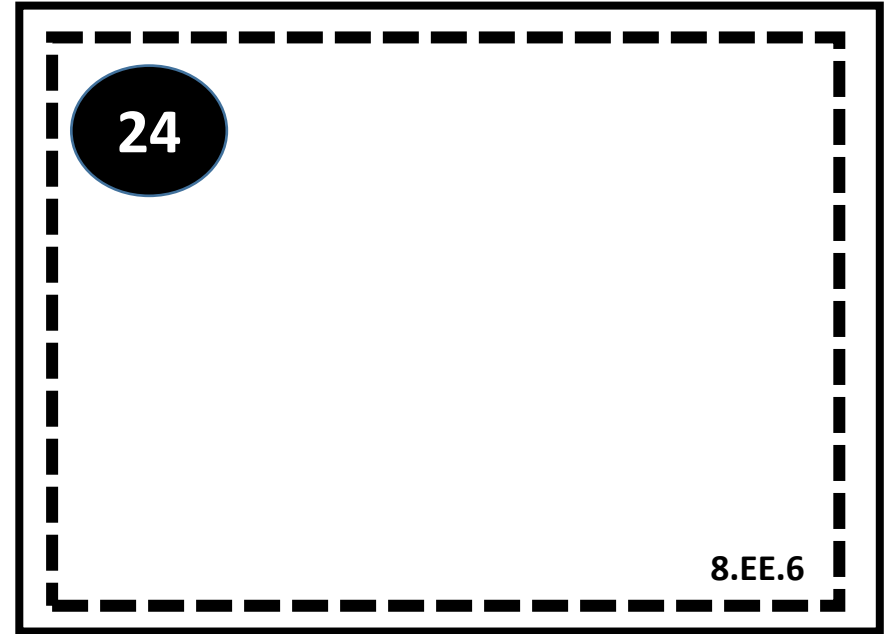
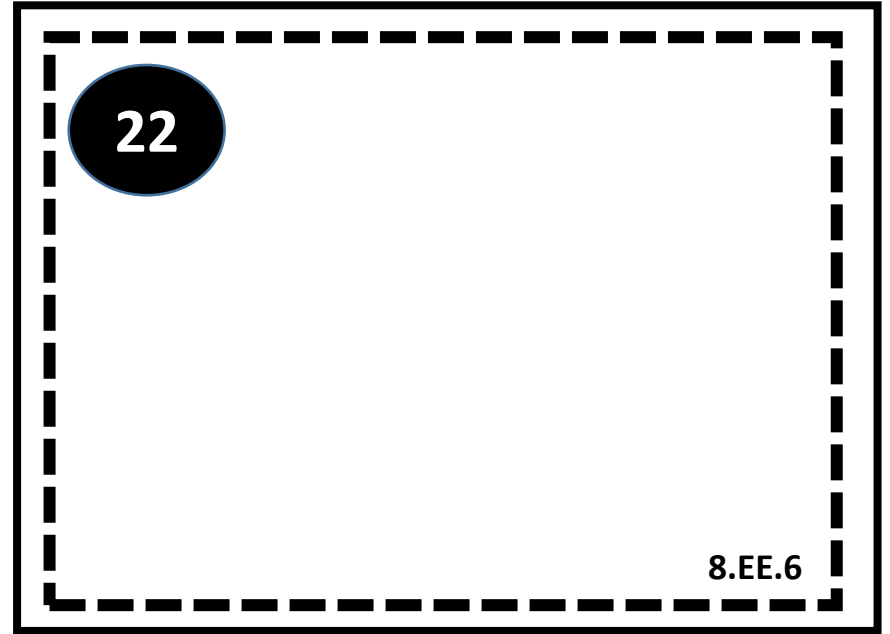
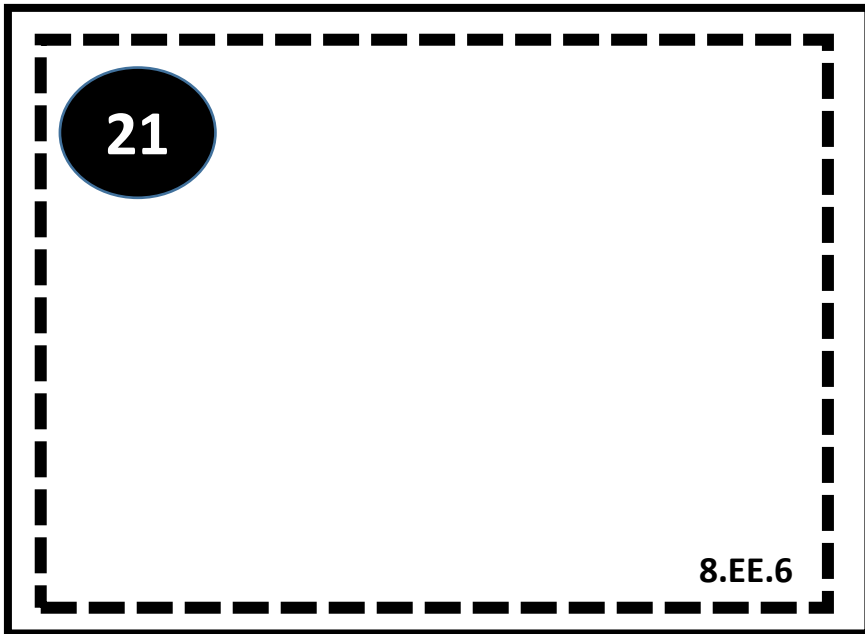
8.EE.6

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8.EE.6



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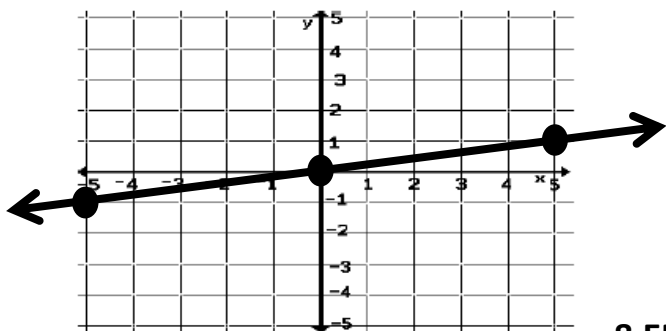
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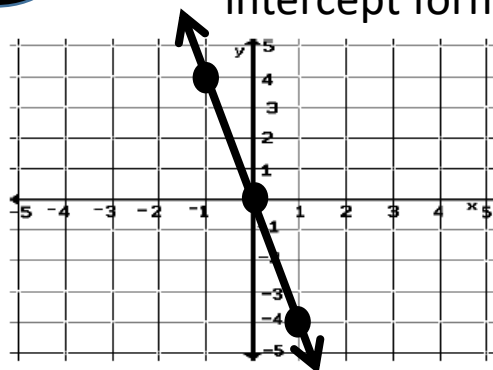
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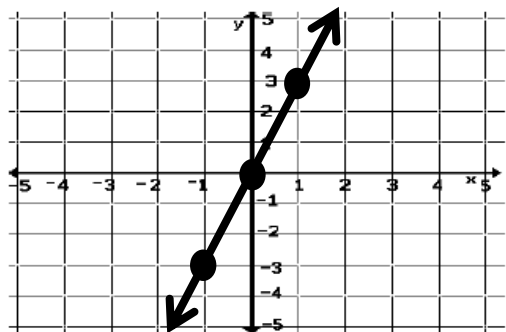
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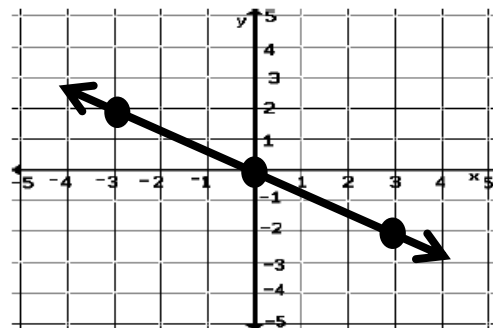
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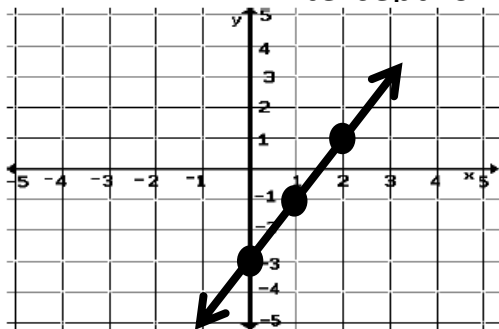
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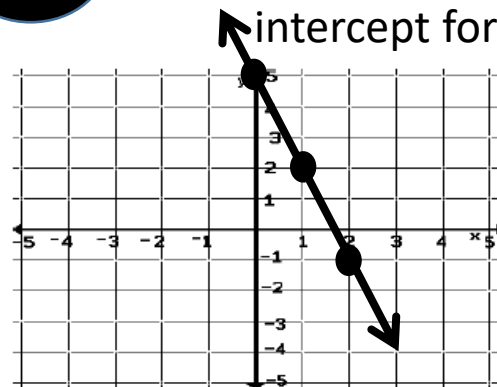
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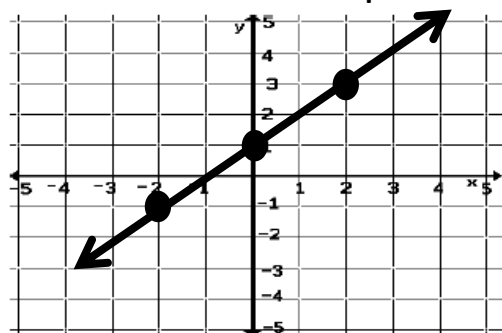
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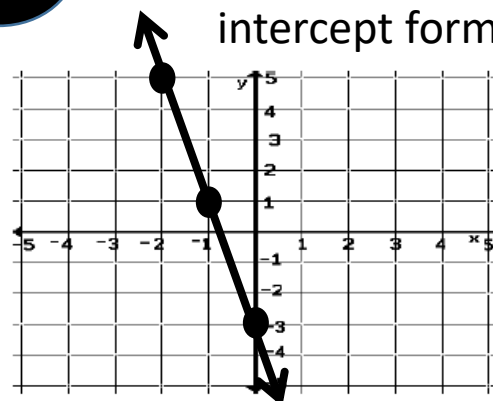
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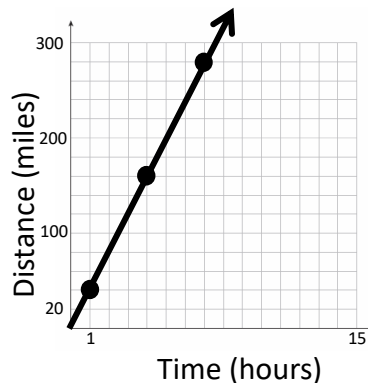
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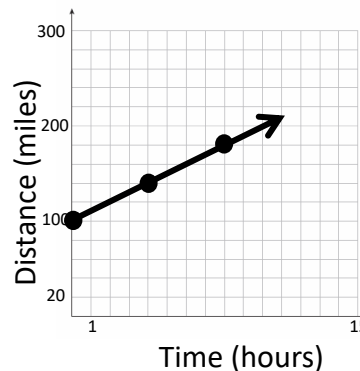
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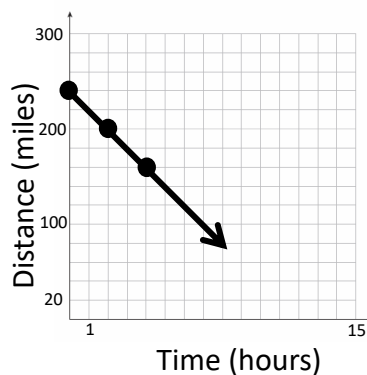
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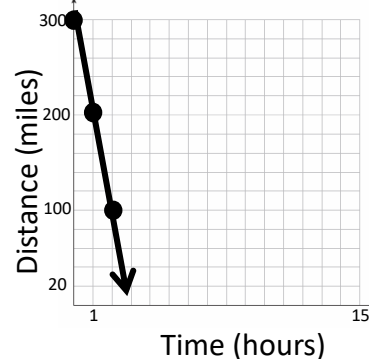
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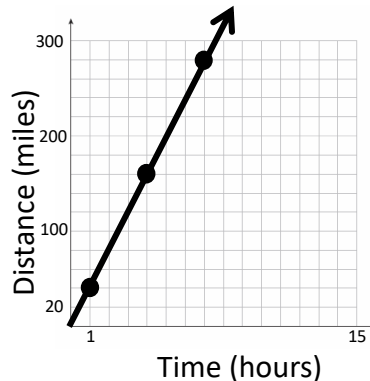
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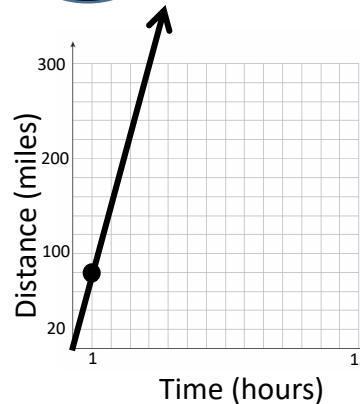
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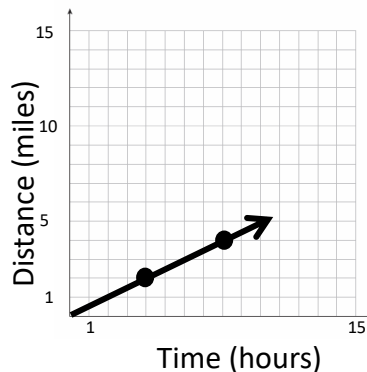
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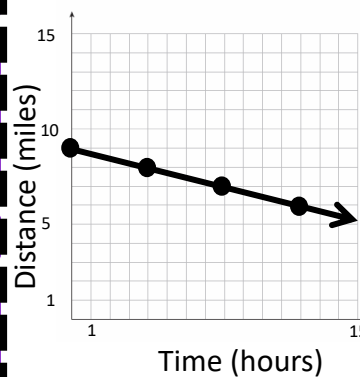
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Write the equation for the following line.



8.EE.6

21

8.EE.6

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8.EE.6

Name _____

Hour _____

8.EE.6 Recording Sheet

1.	2.	3.
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Name _____

Hour _____

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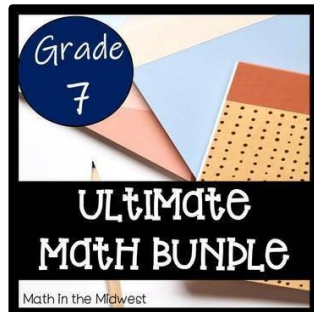
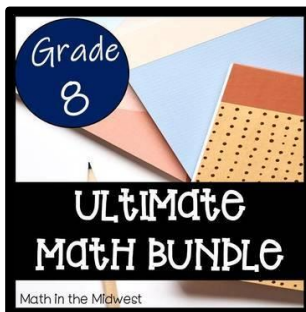
Answer Key

Number	Answer
1	$y = mx + b$
2	<i>True</i>
3	<i>False</i>
4	<i>False</i>
5	$y = \frac{1}{5}x$
6	$y = -4x$
7	$y = 3x$
8	$y = -\frac{1}{3}x$
9	$y = 2x - 3$
10	$y = -3x + 5$

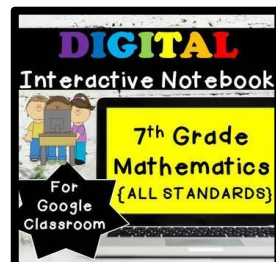
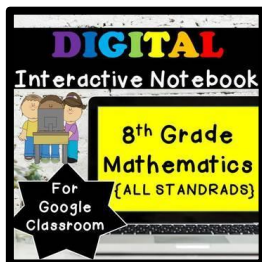
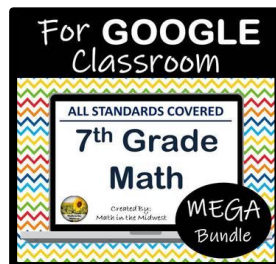
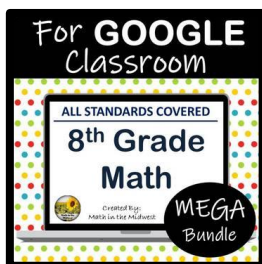
Number	Answer
11	$y = x + 1$
12	$y = -4x - 3$
13	$y = 40x$
14	$y = 10x + 100$
15	$y = -20x + 240$
16	$y = -100x + 300$
17	$y = 40x$
18	$y = 80x$
19	$y = \frac{1}{2}x$
20	$y = -\frac{1}{4}x + 9$

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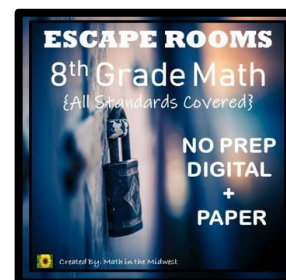
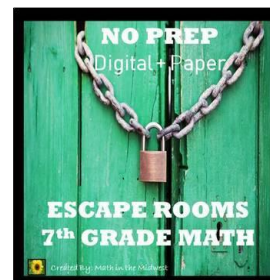
Ultimate Bundles:



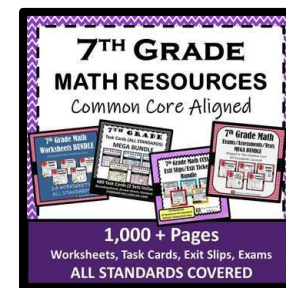
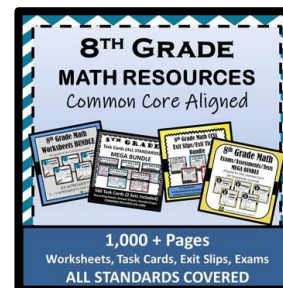
Digital Bundles:



Escape Rooms:



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