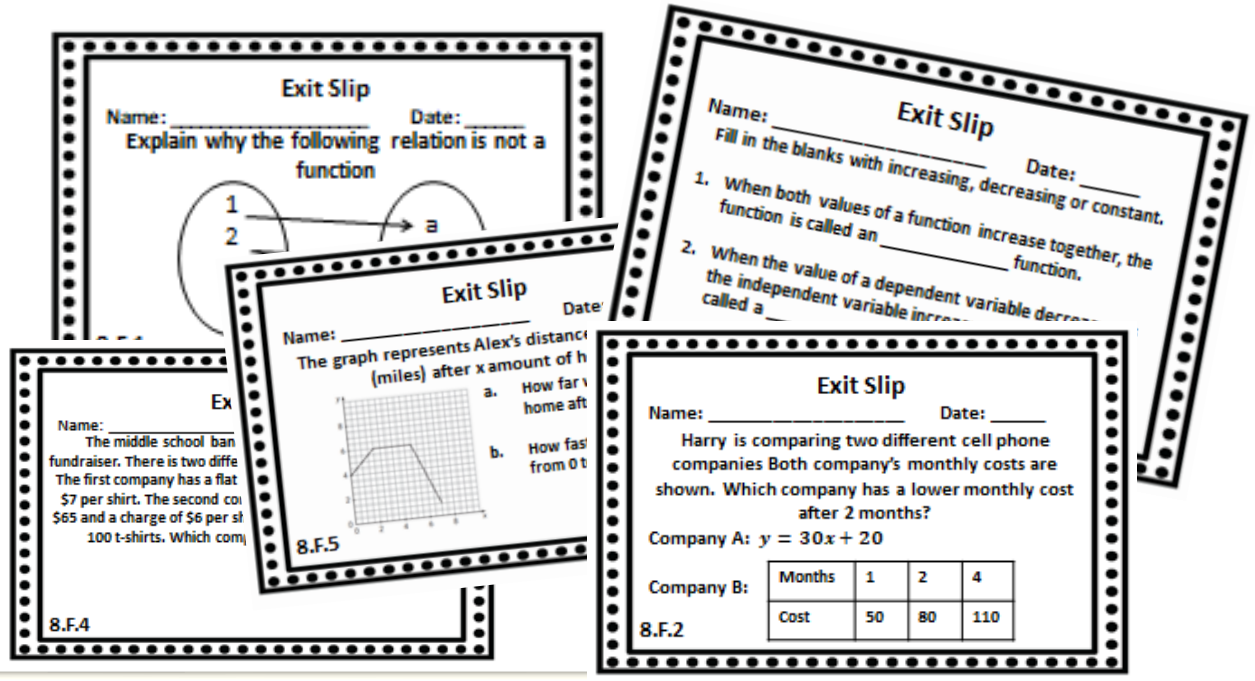
8th Grade Math CCSS Exit Slips Functions



8.F.1
8.F.2
8.F.3
8.F.4
8.F.5

50 Exit Slips/Exit Tickets
10 Questions Per Standard

By: Math in the Midwest

Exit Slip

Name: _____ Date: _____

Explain in your own words what it means for something to be a function.

8.F.1

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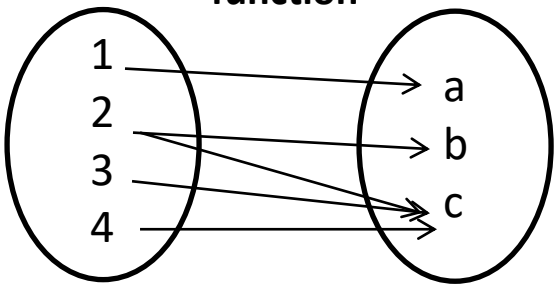
Explain why the following relation is not a function



8.F.1

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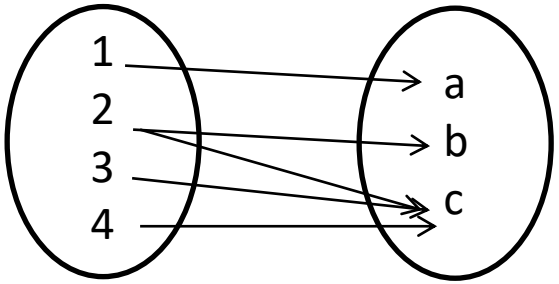

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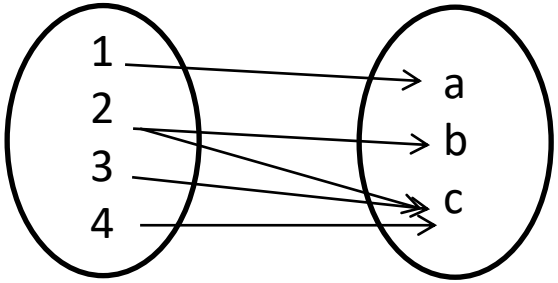

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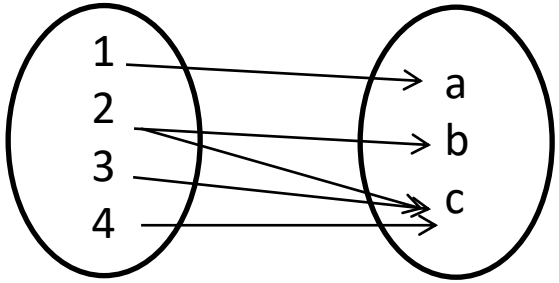

8.F.1

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Name: _____ Date: _____

Determine if the following sequences represent a function. Explain why or why not

a. 3, 6, 9, 12, 15, …

b. 0, 10 , 20, 30, 40, …

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Name: _____ Date: _____

Explain whether the following situation fits the definition of a function.

Input: The NBA playoffs is being telecast.

Output: It appears on televisions in millions of homes.

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Output: Each player wears a uniform with his assigned number.

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Determine whether the following relations are functions.

a. {(3, 4), (4, 7), (5, 12), (6, 12)}

b. {(1, 4), (1, 5), (1, 6), (1, 7)}

8.F.1

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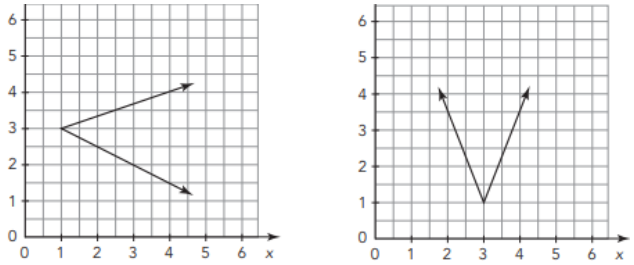

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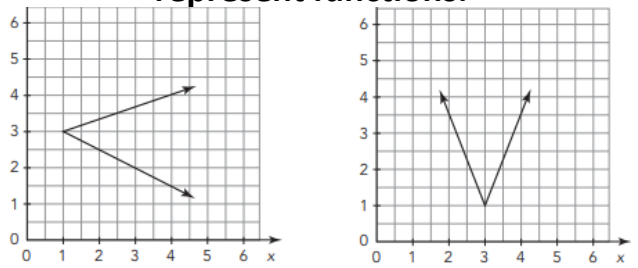

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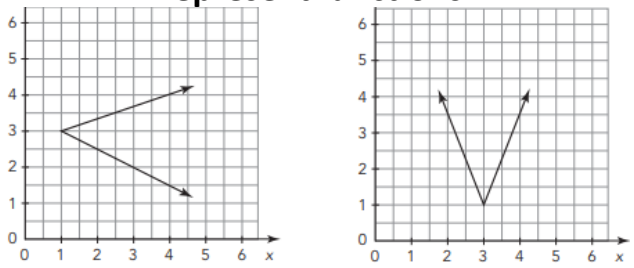

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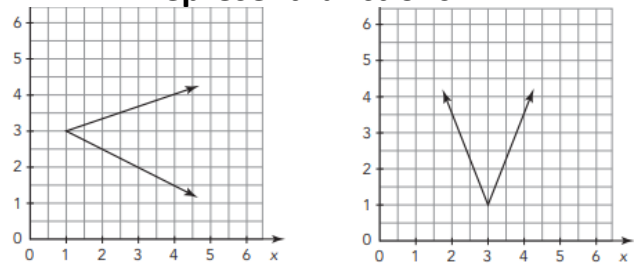

8.F.1

Exit Slip

Name: _____ Date: _____

Determine whether the following relation is a function

Input	-2	-1	0	1
Output	7	8	7	5

8.F.1

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8.F.1

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Name: _____ **Date:** _____

Determine if the following equations represent functions

a. $y = 2x + 1$

b. $x = 4$

c. $y = x^2$

8.F.1

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Name: _____ Date: _____

Give an example of a function and a non-function in any representation you would like such as mapping, table, sequence, set, graph or a scenario.

8.F.1

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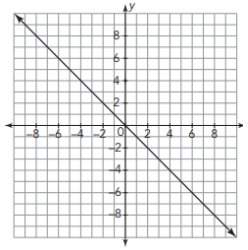
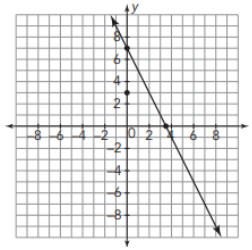
Name: _____ Date: _____

Examine each set of functions and determine which has the greater rate of change.





8.F.2

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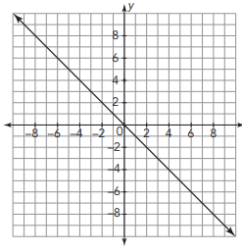

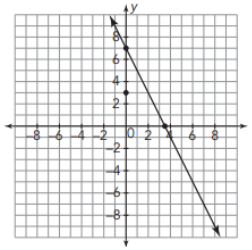

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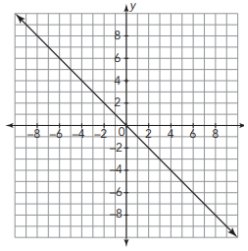

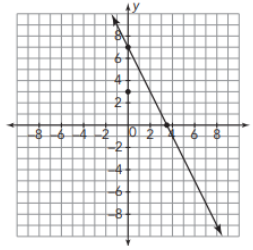

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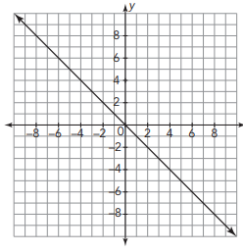

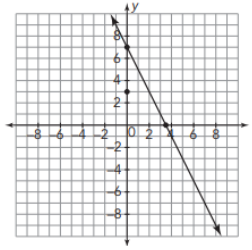

8.F.2

Exit Slip

Name: _____ Date: _____

Examine each set of functions and determine which has the greater rate of change.

a. $y = 2x + 3$

b. $y = \frac{1}{4}x - 1$

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Name: _____ Date: _____

Examine each set of functions and determine which has the greater rate of change.

a. $4x + y = 8$

b. $3x + 6y = 12$

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Harry is comparing two different cell phone companies Both company's monthly costs are shown. Which company has a lower monthly cost after 2 months?

Company A: $y = 10x + 40$

Company B:

Months	1	2	3
Cost	50	80	110

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Explain how to determine the slope from an equation, graph, and a table.

8.F.2

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In your own words explain how to tell which function has a greater rate of change.

8.F.2

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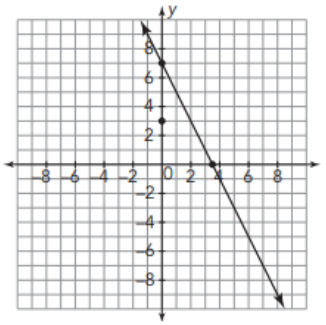
Which function has a greater y – intercept.

a. $y = 2x + 4$

b.

X	0	1	2
Y	0	1	2

c.



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Name: _____ Date: _____

Examine each set of functions and determine which has the greater rate of change.

Table A

x	0	2	5
y	-3	3	12

Table B

x	0	1	2
y	1	3	5

8.F.2

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Examine each set of functions and determine which has the greater rate of change.

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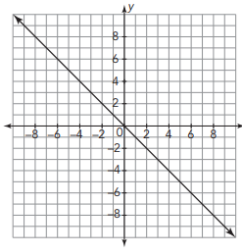
Order the functions from least to greatest rate of change

Function A

x	0	1	2
y	1	3	5

Function B



Function C

$2y + x = 12$

8.F.2

Exit Slip

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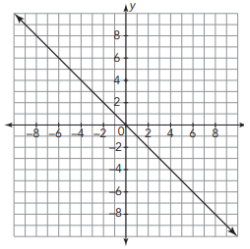
Order the functions from least to greatest rate of change

Function A

x	0	1	2
y	1	3	5

Function B



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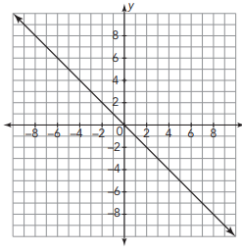

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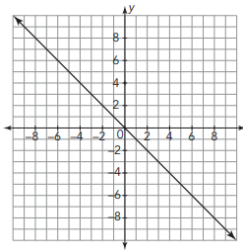


Function C

$2y + x = 12$

8.F.2

Exit Slip

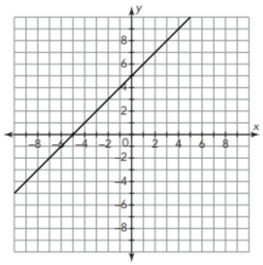
Name: ______________________ **Date:** _______

Order the functions from least to greatest rate of change

Function A

x	0	1	2
y	3	6	9

Function B



Function C

$$y = \frac{1}{4}x + 3$$

8.F.2

Exit Slip

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Function A

x	0	1	2
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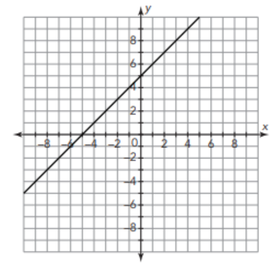
Function B



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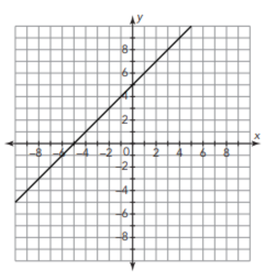

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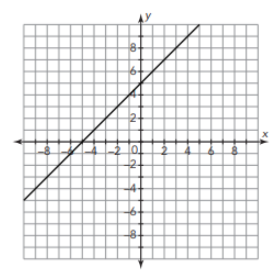

Function C

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8.F.2

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Name: _____ **Date:** _____

Determine if the following are linear or non-linear functions.

a. $y = |x|$

b. $y = 3x - 1$

c. $y = 2x^2 + 4$

8.F.3

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Exit Slip

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Determine if the following are linear or non-linear functions.

a. $y = |x|$

b. $y = 3x - 1$

c. $y = 2x^2 + 4$

8.F.3

Exit Slip

Name: _____ **Date:** _____

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a. $y = |x|$

b. $y = 3x - 1$

c. $y = 2x^2 + 4$

8.F.3

Exit Slip

Name: _____ Date: _____

Describe in your own words what it means for a function to be linear. Give an example of a function that is linear and one that is not linear.

8.F.3

Exit Slip

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8.F.3

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8.F.3

Exit Slip

Name: _____ Date: _____

Describe in your own words what it means for a function to be linear. Give an example of a function that is linear and one that is not linear.

8.F.3

Exit Slip

Name: _____ Date: _____

Explain why the equation $y = 4x + 1$ is linear.

8.F.3

Exit Slip

Name: _____ Date: _____

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8.F.3

Exit Slip

Name: _____ Date: _____

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8.F.3

Exit Slip

Name: _____ Date: _____

Explain why the equation $y = 4x + 1$ is linear.

8.F.3

Exit Slip

Name: _____ Date: _____

A car company charges a $40 fee for renting the car on a daily basis and $0.10 for every mile driven. Write an equation to model the cost of the car on a daily basis for the linear function.

8.F.3

Exit Slip

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8.F.3

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8.F.3

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8.F.3

Exit Slip

Name: _____ **Date:** _____

Write the equation of a linear function with slope m, initial value b, independent quantity x, and dependent quantity y.

8.F.3

Exit Slip

Name: _____ **Date:** _____

Write the equation of a linear function with slope m, initial value b, independent quantity x, and dependent quantity y.

8.F.3

Exit Slip

Name: _____ **Date:** _____

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8.F.3

Exit Slip

Name: _____ **Date:** _____

Write the equation of a linear function with slope m, initial value b, independent quantity x, and dependent quantity y.

8.F.3

Exit Slip

Name: _____ Date: _____

Determine whether the following statements are true or false.

_____ 1. A function whose graph is linear is a curved line.

_____ 2. Some linear functions are proportional and others are not.

_____ 3. Every line is a linear function.

8.F.3

Exit Slip

Name: _____ Date: _____

Determine whether the following statements are true or false.

_____ 1. A function whose graph is linear is a curved line.

_____ 2. Some linear functions are proportional and others are not.

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8.F.3

Exit Slip

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8.F.3

Exit Slip

Name: _____ Date: _____

Fill in the blanks with increasing, decreasing or constant.

1. **When both values of a function increase together, the function is called an _____ function.**

2. **When the value of a dependent variable decreases as the independent variable increases the function is called a _____ function.**

8.F.3

Exit Slip

Name: _____ Date: _____

Fill in the blanks with increasing, decreasing or constant.

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8.F.3

Exit Slip

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2. **When the value of a dependent variable decreases as the independent variable increases the function is called a _____ function.**

8.F.3

Exit Slip

Name: _____ Date: _____

Write an equation that shows the slope is $\frac{3}{4}$ and the y intercept is -2.

8.F.3

Exit Slip

Name: _____ Date: _____

Write an equation that shows the slope is $\frac{3}{4}$ and the y intercept is -2

8.F.3

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8.F.3

Exit Slip

Name: _____ Date: _____

Write an equation that shows the slope is $\frac{3}{4}$ and the y intercept is -2

8.F.3

Exit Slip

Name: _____ Date: _____

Match the following behaviors of functions to the correct type of slope

_____ 1. Increasing	A. Slope of zero
_____ 2. Decreasing	B. Negative slope
_____ 3. Constant	C. Positive slope

8.F.3

Exit Slip

Name: _____ Date: _____

Match the following behaviors of functions to the correct type of slope

_____ 1. Increasing	A. Slope of zero
_____ 2. Decreasing	B. Negative slope
_____ 3. Constant	C. Positive slope

8.F.3

Exit Slip

Name: _____ Date: _____

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8.F.3

Exit Slip

Name: _____ Date: _____

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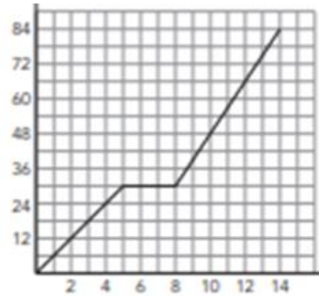
_____ 1. Increasing	A. Slope of zero
_____ 2. Decreasing	B. Negative slope
_____ 3. Constant	C. Positive slope

8.F.3

Exit Slip

Name: ______________________ Date: ______

Describe each interval of increase, interval decrease, or constant interval.

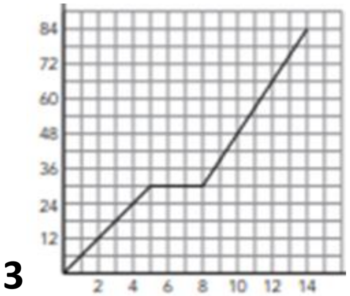


8.F.3

Exit Slip

Name: ______________________ Date: ______

Describe each interval of increase, interval decrease, or constant interval.



8.F.3

Exit Slip

Name: ______________________ Date: ______

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8.F.3

Exit Slip

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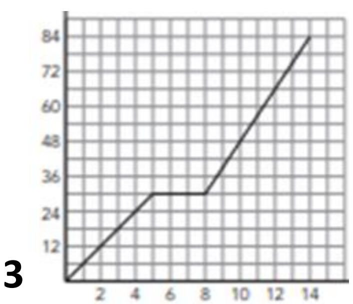


8.F.3

Exit Slip

Name: _____ Date: _____

Fill in the blanks

A _____ graph is a graph of isolated points and a _____ graph is a graph with no breaks in it.

8.F.4

Exit Slip

Name: _____ Date: _____

Fill in the blanks

A _____ graph is a graph of isolated points and a _____ graph is a graph with no breaks in it.

8.F.4

Exit Slip

Name: _____ Date: _____

Fill in the blanks

A _____ graph is a graph of isolated points and a _____ graph is a graph with no breaks in it.

8.F.4

Exit Slip

Name: _____ Date: _____

Fill in the blanks

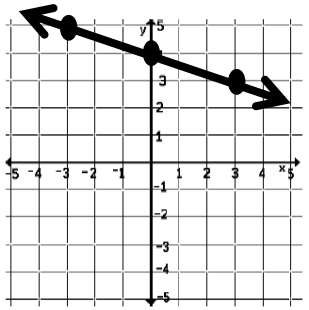
A _____ graph is a graph of isolated points and a _____ graph is a graph with no breaks in it.

8.F.4

Exit Slip

Name: _____ **Date:** _____

Find the rate of change using rise over run – be sure to show your work on the graph. Also, write the equation for the function.



8.F.4

Exit Slip

Name: _____ **Date:** _____

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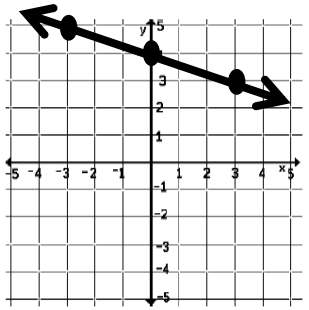
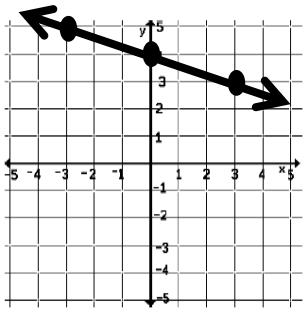


8.F.4

Exit Slip

Name: _____ **Date:** _____

Find the rate of change using rise over run – be sure to show your work on the graph. Also, write the equation for the function.



8.F.4

Exit Slip

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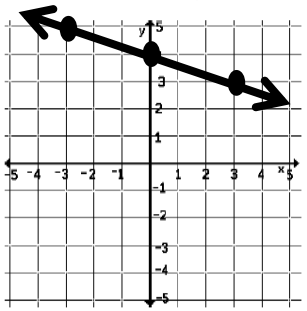

8.F.4

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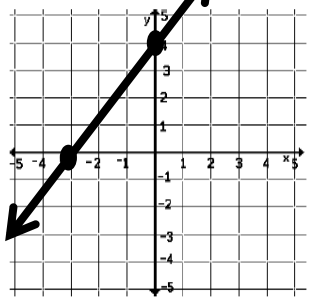

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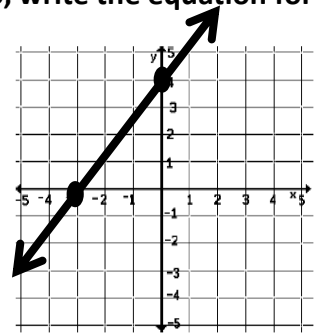

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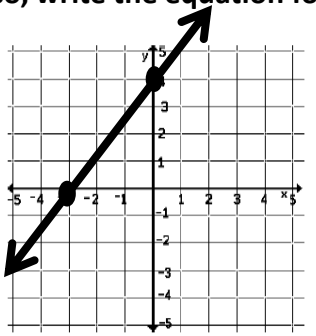

8.F.4

Exit Slip

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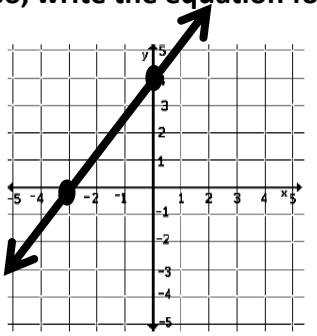

8.F.4

Exit Slip

Name: _____ Date: _____

Find the rate of change between the two ordered pairs (4, 5) and (-2, -7)

8.F.4

Exit Slip

Name: _____ Date: _____

Find the rate of change between the two ordered pairs (4, 5) and (-2, -7)

8.F.4

Exit Slip

Name: _____ Date: _____

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8.F.4

Exit Slip

Name: _____ Date: _____

Find the rate of change between the two ordered pairs (4, 5) and (-2, -7)

8.F.4

Exit Slip

Name: _____ Date: _____

What is the slope of the line $2y = 4x + 6$?

8.F.4

Exit Slip

Name: _____ Date: _____

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8.F.4

Exit Slip

Name: _____ Date: _____

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8.F.4

Exit Slip

Name: _____ Date: _____

What is the slope of the line $2y = 4x + 6$?

8.F.4

Exit Slip

Name: _____ Date: _____

What are the intercepts of the equation $6x + 2y = 12$?

8.F.4

Exit Slip

Name: _____ Date: _____

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8.F.4

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8.F.4

Exit Slip

Name: _____ Date: _____

What are the intercepts of the equation $6x + 2y = 12$?

8.F.4

Exit Slip

Name: _____ Date: _____

The middle school band wants to sell t-shirts for a fundraiser. There is two different companies to choose from. The first company has a flat design rate of $40 and charges $7 per shirt. The second company has a flat design rate of $65 and a charge of $6 per shirt. The band plans to sell over 100 t-shirts. Which company should they choose?

8.F.4

Exit Slip

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8.F.4

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8.F.4

Exit Slip

Name: _____ Date: _____

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8.F.4

Exit Slip

Name: _____ Date: _____

Determine the slope and y – intercept of the line represented by the following equations.

a. $y + 2 = 4(x - 1)$

b. $y = \frac{1}{4}x - 2$

8.F.4

Exit Slip

Name: _____ Date: _____

Determine the slope and y – intercept of the line represented by the following equations.

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8.F.4

Exit Slip

Name: _____ Date: _____

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8.F.4

Exit Slip

Name: _____ Date: _____

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a. $y + 2 = 4(x - 1)$

b. $y = \frac{1}{4}x - 2$

8.F.4

Exit Slip

Name: _____ Date: _____

Consider the linear equation $2x + 3y = 12$.
Complete the table.

X	Y
	0
0	
	2

8.F.4

Exit Slip

Name: _____ Date: _____

Consider the linear equation $2x + 3y = 12$.
Complete the table.

X	Y
	0
0	
	2

8.F.4

Exit Slip

Name: _____ Date: _____

Consider the linear equation $2x + 3y = 12$.
Complete the table.

X	Y
	0
0	
	2

8.F.4

Exit Slip

Name: _____ Date: _____

Consider the linear equation $2x + 3y = 12$.
Complete the table.

X	Y
	0
0	
	2

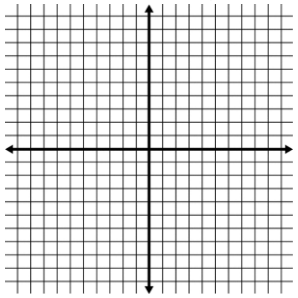
8.F.4

Exit Slip

Name: _____ Date: _____

Find the rate of change of the following table then graph the function on the coordinate plane.

x	1	2	3
y	4	6	8



8.F.4

Exit Slip

Name: _____ Date: _____

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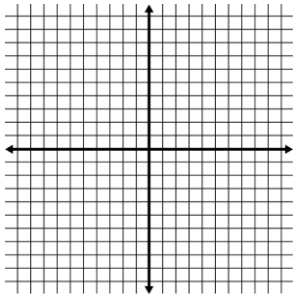

8.F.4

Exit Slip

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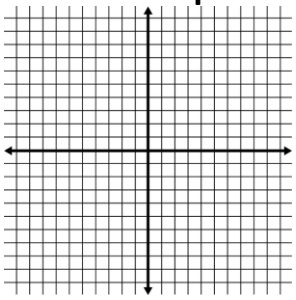

8.F.4

Exit Slip

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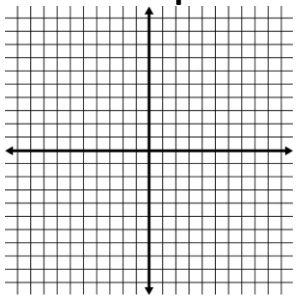


8.F.4

Exit Slip

Name: _____ Date: _____

Explain the difference between a linear graph and non-linear graph.

8.F.5

Exit Slip

Name: _____ Date: _____

Explain the difference between a linear graph and non-linear graph.

8.F.5

Exit Slip

Name: _____ Date: _____

Explain the difference between a linear graph and non-linear graph.

8.F.5

Exit Slip

Name: _____ Date: _____

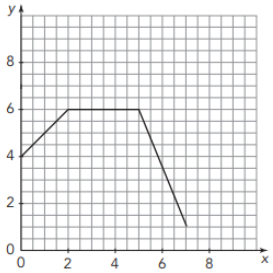
Explain the difference between a linear graph and non-linear graph.

8.F.5

Exit Slip

Name: _____ Date: _____

The graph represents Alex's distance from home (miles) after x amount of hours



a. How far was Alex from home after 2 hours?

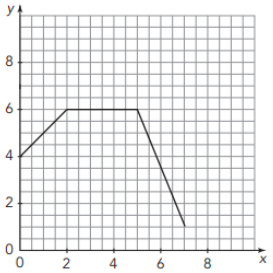
b. How fast did Alex travel from 0 to 2 hours?

8.F.5

Exit Slip

Name: _____ Date: _____

The graph represents Alex's distance from home (miles) after x amount of hours



a. How far was Alex from home after 2 hours?

b. How fast did Alex travel from 0 to 2 hours?

8.F.5

Exit Slip

Name: _____ Date: _____

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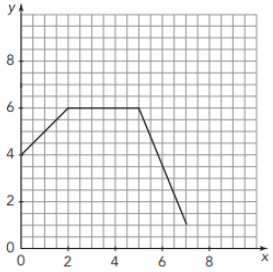

a. How far was Alex from home after 2 hours?

b. How fast did Alex travel from 0 to 2 hours?

8.F.5

Exit Slip

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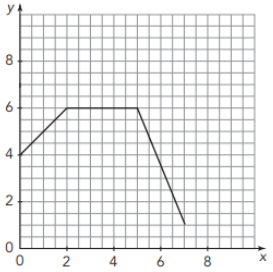
The graph represents Alex's distance from home (miles) after x amount of hours



a. How far was Alex from home after 2 hours?

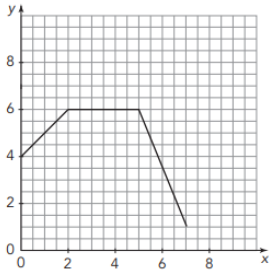
b. How fast did Alex travel from 0 to 2 hours?

8.F.5

Exit Slip

Name: _____ Date: _____

The graph represents Alex's distance from home (miles) after x amount of hours



a. How far did Alex travel between 2 and 4 hours?

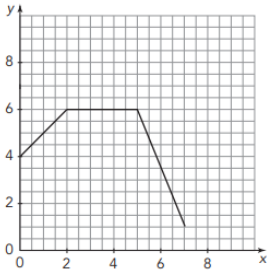
b. How fast did he travel during this time? Explain

8.F.5

Exit Slip

Name: _____ Date: _____

The graph represents Alex's distance from home (miles) after x amount of hours



a. How far did Alex travel between 2 and 4 hours?

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8.F.5

Exit Slip

Name: _____ Date: _____

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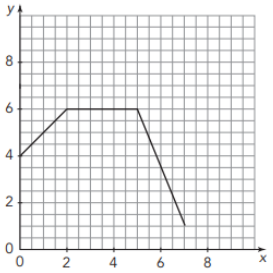

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8.F.5

Exit Slip

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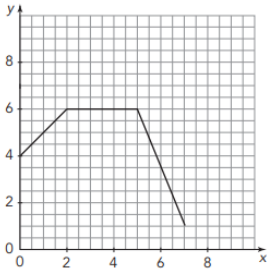

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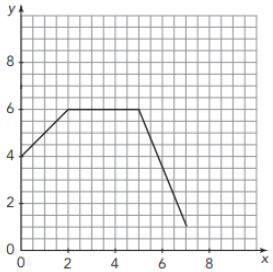
Exit Slip

Name: _____ Date: _____

The graph represents Alex's distance from home (miles) after x amount of hours



Give a description of Alex's journey from 5 hours to 7 hours

8.F.5

Exit Slip

Name: _____ Date: _____

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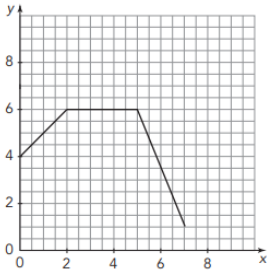

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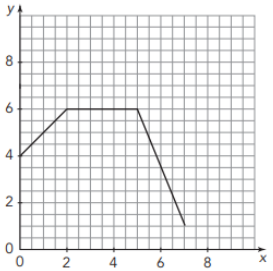

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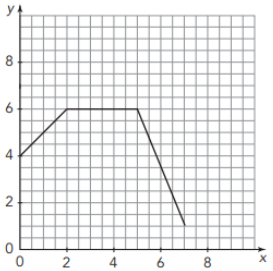

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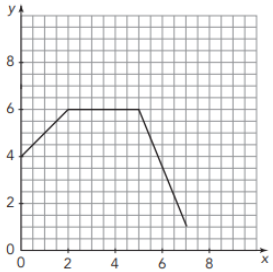

Explain why it makes sense for the graph of this situation to be continuous rather than discrete?

8.F.5

Exit Slip

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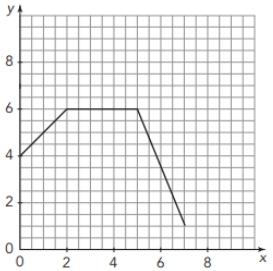

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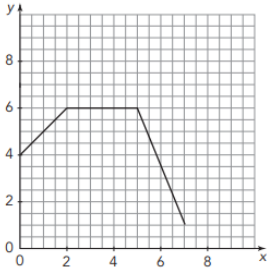

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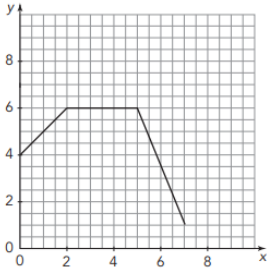

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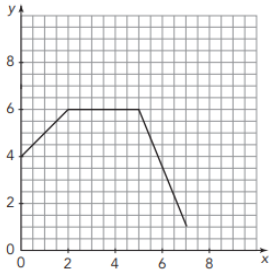

Was Alex walking at the same rate the entire time? Explain using mathematics and the graph.

8.F.5

Exit Slip

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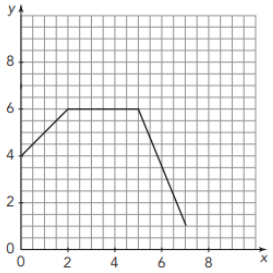

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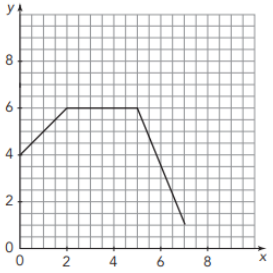

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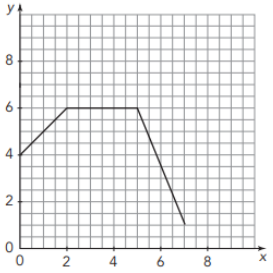

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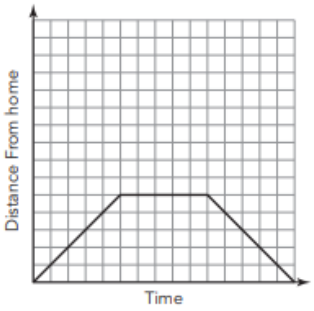
Exit Slip

Name: _____ **Date:** _____

Write a story that matches the following graph:



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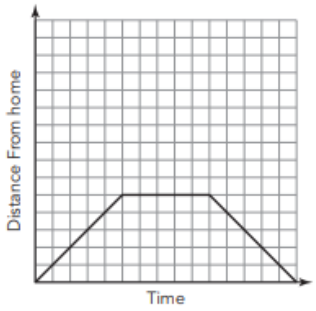

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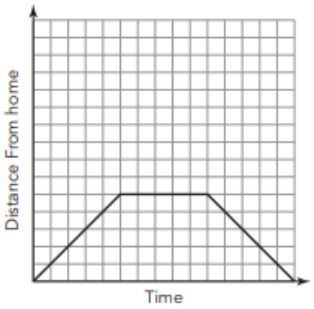

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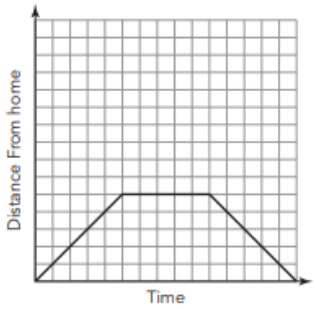

8.F.5

Exit Slip

Name: _____ Date: _____

Zach left home to go to school and on his way he stopped to talk to his neighbor. Then he kept walking until he got to school. After school he ran home. Sketch a graph of the following situation.

8.F.5

Exit Slip

Name: _____ Date: _____

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8.F.5

Exit Slip

Name: _____ **Date:** _____

Erica spent the night at her friends house. That evening she realized she forgot her toothbrush and drove back to her house to get it and then back to her friends house to stay the night. Sketch a graph of her distance from home of the following situation.

8.F.5

Exit Slip

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Name: _____ **Date:** _____

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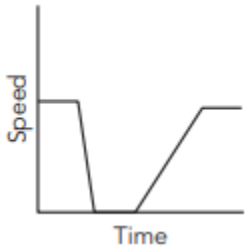

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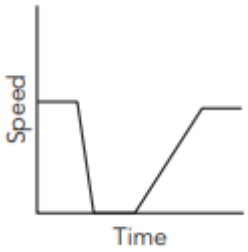

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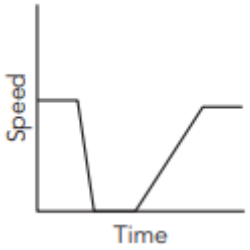

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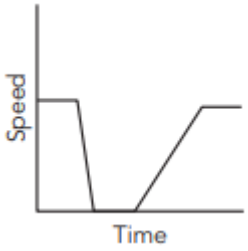

8.F.5

Answer Keys

Exit Slip

Name: _____ Date: _____

Explain in your own words what it means for something to be a function.

Answers may vary

8.F.1

Exit Slip

Name: _____ Date: _____

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Name: _____ Date: _____

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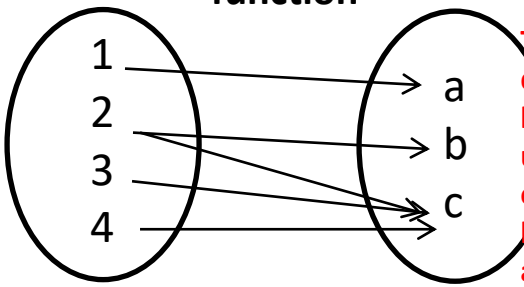
Answers may vary

8.F.1

Exit Slip

Name: _____ Date: _____

Explain why the following relation is not a function



The input 2 does not have one unique output it has two b and c

8.F.1

Exit Slip

Name: _____ Date: _____

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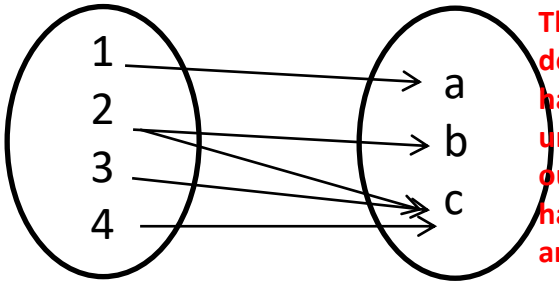

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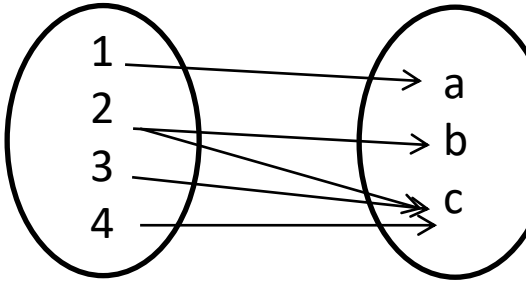

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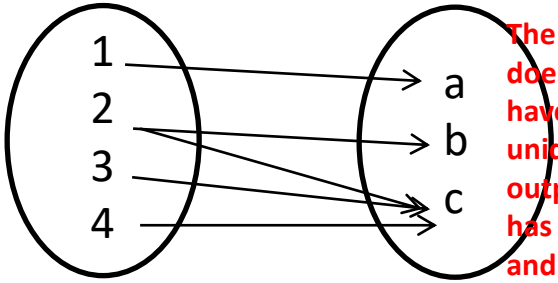

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8.F.1

Exit Slip

Name: _____ Date: _____

Determine if the following sequences represent a function. Explain why or why not

a. 3, 6, 9, 12, 15, …

Both represent a function because each input, term number in the sequence, has one output, the term.

b. 0, 10 , 20, 30, 40, …

8.F.1

Exit Slip

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8.F.1

Exit Slip

Name: _____ Date: _____

Explain whether the following situation fits the definition of a function.

Input: The NBA playoffs is being telecast.

Output: It appears on televisions in millions of homes.

No the NBA playoffs are being mapped to more than one home

8.F.1

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Exit Slip

Name: _____ Date: _____

Explain whether the following situation fits the definition of a function.

Input: The baseball team has numbered uniforms.

Output: Each player wears a uniform with his assigned number.

Yes each player wears one uniform with one specific number.

8.F.1

Exit Slip

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Exit Slip

Name: _____ Date: _____

Determine whether the following relations are functions.

a. {(3, 4), (4, 7), (5, 12), (6, 12)}

Yes, each input has one unique output

b. {(1, 4), (1, 5), (1, 6), (1, 7)}

No, the input 1 does not have one unique output

8.F.1

Exit Slip

Name: _____ Date: _____

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8.F.1

Exit Slip

Name: ______________________ Date: ______

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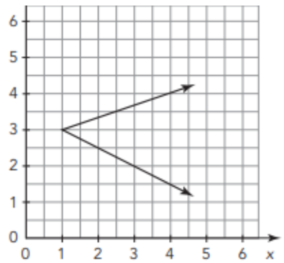
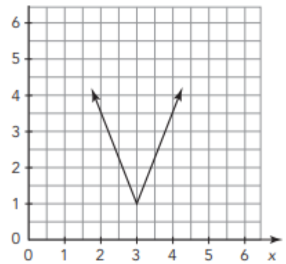

8.F.1 Not a function Function

Exit Slip

Name: ______________________ Date: ______

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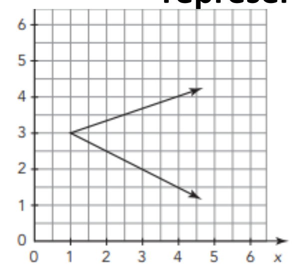
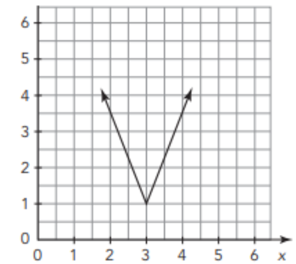

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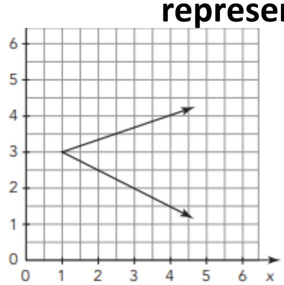
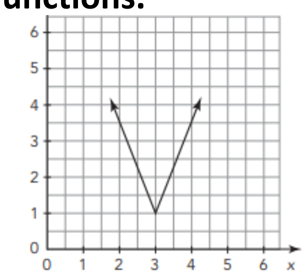

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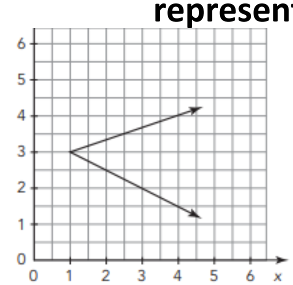
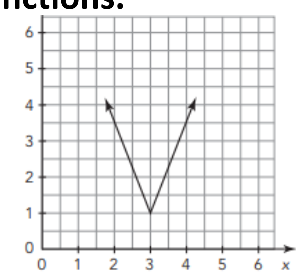

8.F.1 Not a function Function

Exit Slip

Name: _____ **Date:** _____

Determine whether the following relation is a function

Input	-2	-1	0	1
Output	7	8	7	5

Function, each input has a unique output

8.F.1

Exit Slip

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Exit Slip

Name: _____ Date: _____

Determine if the following equations represent functions

a. $y = 2x + 1$ Function

b. $x = 4$ Not a function

c. $y = x^2$ Function

8.F.1

Exit Slip

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8.F.1

Exit Slip

Name: _____ Date: _____

Give an example of a function and a non-function in any representation you would like such as mapping, table, sequence, set, graph or a scenario.

Answers will vary

8.F.1

Exit Slip

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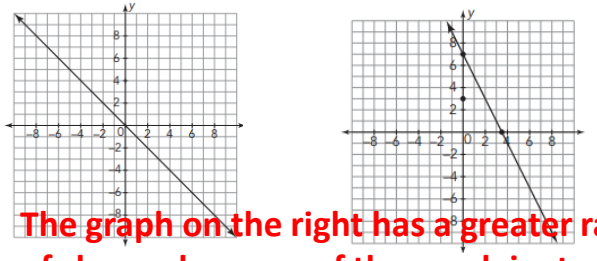
Exit Slip

Name: _____ Date: _____

Examine each set of functions and determine which has the greater rate of change.

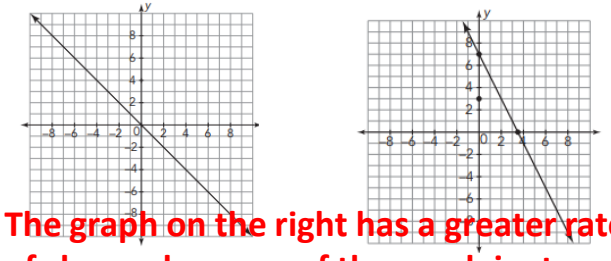


8.F.2 The graph on the right has a greater rate of change because of the graph is steeper

Exit Slip

Name: _____ Date: _____

Examine each set of functions and determine which has the greater rate of change.



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Exit Slip

Name: _____ Date: _____

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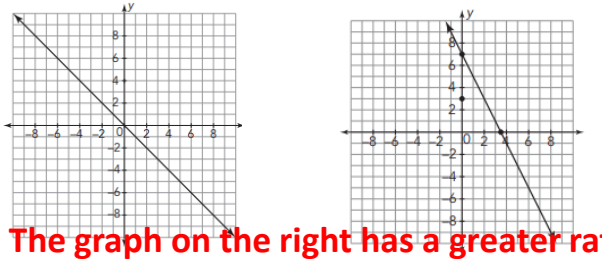

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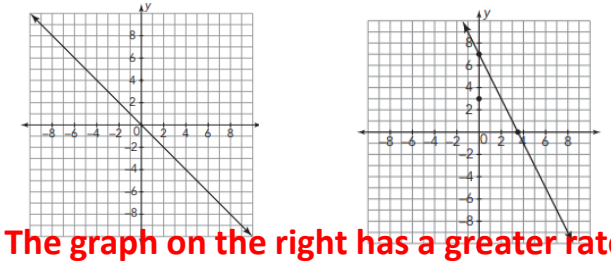

8.F.2 The graph on the right has a greater rate of change because of the graph is steeper

Exit Slip

Name: _____ Date: _____

Examine each set of functions and determine which has the greater rate of change.

a. $y = 2x + 3$

b. $y = \frac{1}{4}x - 1$

Function A has a greater rate of change

8.F.2

Exit Slip

Name: _____ Date: _____

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Function A has a greater rate of change

8.F.2

Exit Slip

Name: _____ Date: _____

Examine each set of functions and determine which has the greater rate of change.

a. $4x + y = 8$

b. $3x + 6y = 12$

Function A has a greater rate of change

8.F.2

Exit Slip

Name: _____ Date: _____

Examine each set of functions and determine which has the greater rate of change.

a. $4x + y = 8$

b. $3x + 6y = 12$

Function A has a greater rate of change

8.F.2

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Function A has a greater rate of change

8.F.2

Exit Slip

Name: _____ Date: _____

Harry is comparing two different cell phone companies Both company's monthly costs are shown. Which company has a lower monthly cost after 2 months? Same cost after 2 months

Company A: $y = 10x + 40$

Company B:

Months	1	2	3
Cost	50	80	110

8.F.2

Exit Slip

Name: _____ Date: _____

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8.F.2

Exit Slip

Name: _____ Date: _____

Explain how to determine the slope from an equation, graph, and a table.

Answers will vary

8.F.2

Exit Slip

Name: _____ Date: _____

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Answers will vary

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Exit Slip

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Exit Slip

Name: _____ Date: _____

Explain how to determine the slope from an equation, graph, and a table.

Answers will vary

8.F.2

Exit Slip

Name: _____ Date: _____

In your own words explain how to tell which function has a greater rate of change.

Answers will vary

8.F.2

Exit Slip

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In your own words explain how to tell which function has a greater rate of change.

Answers will vary

8.F.2

Exit Slip

Name: _____ Date: _____

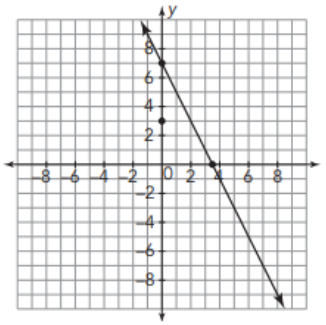
Which function has a greater y – intercept.

a. $y = 2x + 4$

b.

X	0	1	2
Y	0	1	2

c.



Function C

8.F.2

Exit Slip

Name: _____ Date: _____

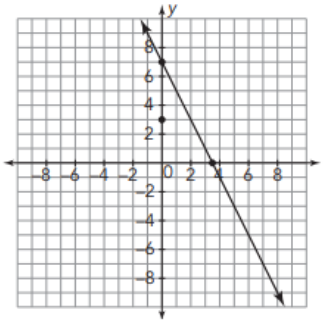
Which function has a greater y – intercept.

a. $y = 2x + 4$

b.

X	0	1	2
Y	0	1	2

c.



Function C

8.F.2

Exit Slip

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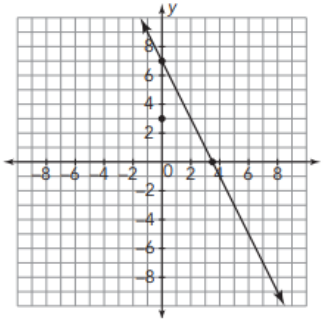

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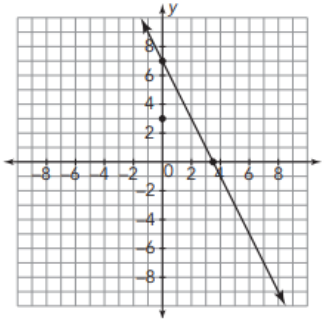

Function C

8.F.2

Exit Slip

Name: _____ Date: _____

Examine each set of functions and determine which has the greater rate of change.

Table A

x	0	2	5
y	-3	3	12

Table B

x	0	1	2
y	1	3	5

8.F.2

Table on the left because its rate of change is 3 and table on the right is only 2

Exit Slip

Name: _____ Date: _____

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x	0	2	5
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Exit Slip

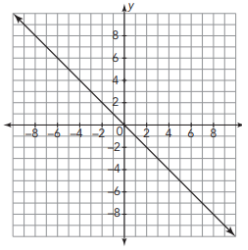
Name: _____ Date: _____

Order the functions from least to greatest rate of change

Function A

x	0	1	2
y	1	3	5

Function B



Function C

$2y + x = 12$

8.F.2

C, B, A

Exit Slip

Name: _____ Date: _____

Order the functions from least to greatest rate of change

Function A

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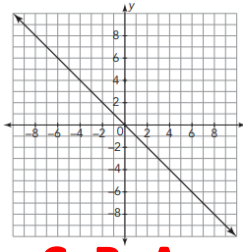
Function B



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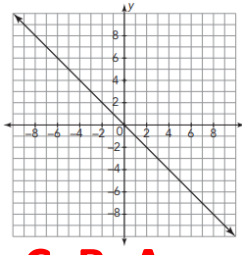

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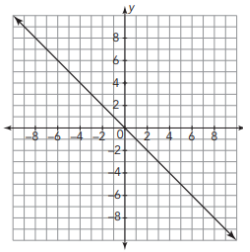


Function C

$2y + x = 12$

8.F.2

C, B, A

Exit Slip

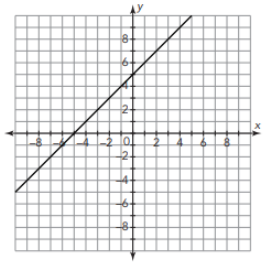
Name: _____ Date: _____

Order the functions from least to greatest rate of change

Function A

x	0	1	2
y	3	6	9

Function B



Function C

$$y = \frac{1}{4}x + 3$$

8.F.2

C, B, A

Exit Slip

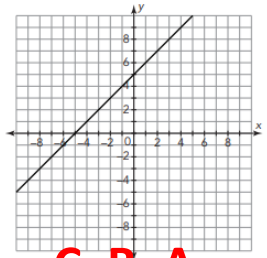
Name: _____ Date: _____

Order the functions from least to greatest rate of change

Function A

x	0	1	2
y	3	6	9

Function B



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C, B, A

Exit Slip

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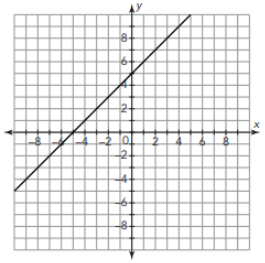

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C, B, A

Exit Slip

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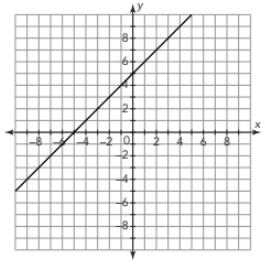

Function C

$$y = \frac{1}{4}x + 3$$

8.F.2

C, B, A

Exit Slip

Name: _____ Date: _____

Determine if the following are linear or non-linear functions.

a. $y = |x|$ Non-linear

b. $y = 3x - 1$ Linear

c. $y = 2x^2 + 4$ Non - linear

8.F.3

Exit Slip

Name: _____ Date: _____

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Exit Slip

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a. $y = |x|$ Non-linear

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c. $y = 2x^2 + 4$ Non - linear

8.F.3

Exit Slip

Name: _____ Date: _____

Describe in your own words what it means for a function to be linear. Give an example of a function that is linear and one that is not linear.

Answers will vary

8.F.3

Exit Slip

Name: _____ Date: _____

Describe in your own words what it means for a function to be linear. Give an example of a function that is linear and one that is not linear.

Answers will vary

8.F.3

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Answers will vary

8.F.3

Exit Slip

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Describe in your own words what it means for a function to be linear. Give an example of a function that is linear and one that is not linear.

Answers will vary

8.F.3

Exit Slip

Name: _____ Date: _____

Explain why the equation $y = 4x + 1$ is linear.

y = 4x + 1 is linear because when graphed it forms a straight line. Also it is increasing at a constant rate.

8.F.3

Exit Slip

Name: _____ Date: _____

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8.F.3

Exit Slip

Name: _____ Date: _____

A car company charges a $40 fee for renting the car on a daily basis and $0.10 for every mile driven. Write an equation to model the cost of the car on a daily basis for the linear function.

$$y = 0.1x + 40$$

8.F.3

Exit Slip

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$$y = 0.1x + 40$$

8.F.3

Exit Slip

Name: _____ Date: _____

Write the equation of a linear function with slope m, initial value b, independent quantity x, and dependent quantity y.

$$y = mx + b$$

8.F.3

Exit Slip

Name: _____ Date: _____

Write the equation of a linear function with slope m, initial value b, independent quantity x, and dependent quantity y.

$$y = mx + b$$

8.F.3

Exit Slip

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8.F.3

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Write the equation of a linear function with slope m, initial value b, independent quantity x, and dependent quantity y.

$$y = mx + b$$

8.F.3

Exit Slip

Name: _____ Date: _____

Determine whether the following statements are true or false.

True _____ 1. A function whose graph is linear is a curved line.

False _____ 2. Some linear functions are proportional and others are not.

False _____ 3. Every line is a linear function.

8.F.3

Exit Slip

Name: _____ Date: _____

Determine whether the following statements are true or false.

True _____ 1. A function whose graph is linear is a curved line.

False _____ 2. Some linear functions are proportional and others are not.

False _____ 3. Every line is a linear function.

8.F.3

Exit Slip

Name: _____ Date: _____

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True _____ 1. A function whose graph is linear is a curved line.

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False _____ 3. Every line is a linear function.

8.F.3

Exit Slip

Name: _____ Date: _____

Determine whether the following statements are true or false.

True _____ 1. A function whose graph is linear is a curved line.

False _____ 2. Some linear functions are proportional and others are not.

False _____ 3. Every line is a linear function.

8.F.3

Exit Slip

Name: _____ Date: _____

Fill in the blanks with increasing, decreasing or constant.

1. When both values of a function increase together, the function is called an _increasing_ function.
2. When the value of a dependent variable decreases as the independent variable increases the function is called a _decreasing_ function.

8.F.3

Exit Slip

Name: _____ Date: _____

Fill in the blanks with increasing, decreasing or constant.

1. When both values of a function increase together, the function is called an _increasing_ function.
2. When the value of a dependent variable decreases as the independent variable increases the function is called a _decreasing_ function.

8.F.3

Exit Slip

Name: _____ Date: _____

Fill in the blanks with increasing, decreasing or constant.

1. When both values of a function increase together, the function is called an _increasing_ function.
2. When the value of a dependent variable decreases as the independent variable increases the function is called a _decreasing_ function.

8.F.3

Exit Slip

Name: _____ Date: _____

Fill in the blanks with increasing, decreasing or constant.

1. When both values of a function increase together, the function is called an _increasing_ function.
2. When the value of a dependent variable decreases as the independent variable increases the function is called a _decreasing_ function.

8.F.3

Exit Slip

Name: _____ Date: _____

Write an equation that shows the slope is $\frac{3}{4}$ and the y intercept is -2.

$$y = \frac{3}{4}x - 2$$

8.F.3

Exit Slip

Name: _____ Date: _____

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8.F.3

Exit Slip

Name: _____ Date: _____

Write an equation that shows the slope is $\frac{3}{4}$ and the y intercept is -2

$$y = \frac{3}{4}x - 2$$

8.F.3

Exit Slip

Name: _____ Date: _____

Match the following behaviors of functions to the correct type of slope

C	1. Increasing	A. Slope of zero
B	2. Decreasing	B. Negative slope
A	3. Constant	C. Positive slope

8.F.3

Exit Slip

Name: _____ Date: _____

Match the following behaviors of functions to the correct type of slope

C	1. Increasing	A. Slope of zero
B	2. Decreasing	B. Negative slope
A	3. Constant	C. Positive slope

8.F.3

Exit Slip

Name: _____ Date: _____

Match the following behaviors of functions to the correct type of slope

C	1. Increasing	A. Slope of zero
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8.F.3

Exit Slip

Name: _____ Date: _____

Match the following behaviors of functions to the correct type of slope

C	1. Increasing	A. Slope of zero
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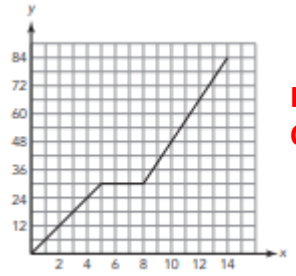
A	3. Constant	C. Positive slope

8.F.3

Exit Slip

Name: _____ Date: _____

Describe each interval of increase, interval decrease, or constant interval.



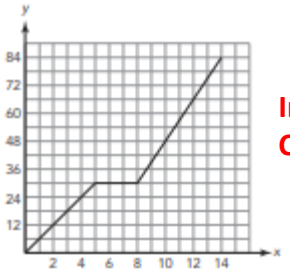
Increasing: 0 to 5 and 8 to 14
Constant: 5 to 8

8.F.3

Exit Slip

Name: _____ Date: _____

Describe each interval of increase, interval decrease, or constant interval.



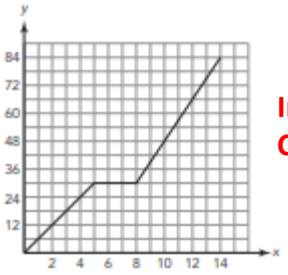
Increasing: 0 to 5 and 8 to 14
Constant: 5 to 8

8.F.3

Exit Slip

Name: _____ Date: _____

Describe each interval of increase, interval decrease, or constant interval.



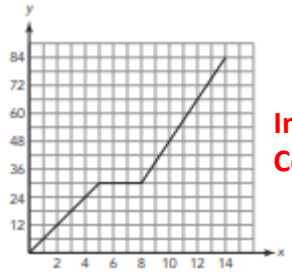
Increasing: 0 to 5 and 8 to 14
Constant: 5 to 8

8.F.3

Exit Slip

Name: _____ Date: _____

Describe each interval of increase, interval decrease, or constant interval.



Increasing: 0 to 5 and 8 to 14
Constant: 5 to 8

8.F.3

Exit Slip

Name: _____ Date: _____

Fill in the blanks

A discrete graph is a graph of isolated points and a continuous graph is a graph with no breaks in it.

8.F.4

Exit Slip

Name: _____ Date: _____

Fill in the blanks

A discrete graph is a graph of isolated points and a continuous graph is a graph with no breaks in it.

8.F.4

Exit Slip

Name: _____ Date: _____

Fill in the blanks

A discrete graph is a graph of isolated points and a continuous graph is a graph with no breaks in it.

8.F.4

Exit Slip

Name: _____ Date: _____

Fill in the blanks

A discrete graph is a graph of isolated points and a continuous graph is a graph with no breaks in it.

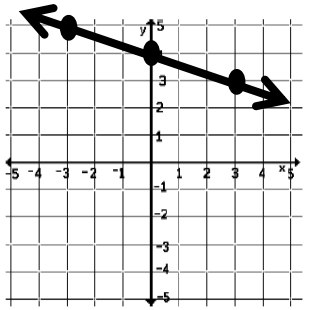
8.F.4

Exit Slip

Name: _____ Date: _____

Find the rate of change using rise over run – be sure to show your work on the graph. Also, write the equation for the function.

$$y = -\frac{1}{3}x + 4$$



8.F.4

Exit Slip

Name: _____ Date: _____

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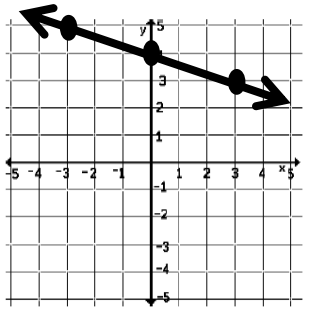

8.F.4

Exit Slip

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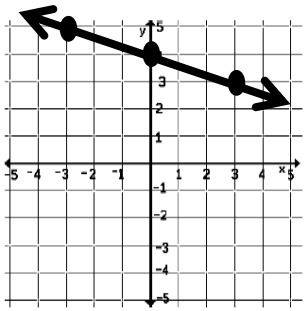

8.F.4

Exit Slip

Name: _____ Date: _____

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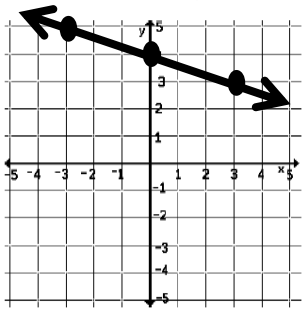


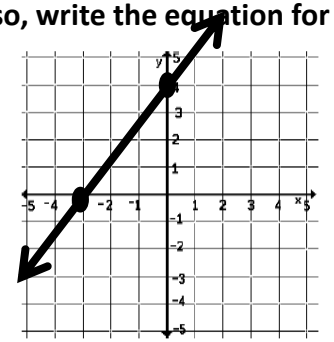
8.F.4

Exit Slip

Name: _____ **Date:** _____

Find the rate of change using rise over run – be sure to show your work on the graph. Also, write the equation for the function.

$$y = \frac{4}{3}x + 4$$



8.F.4

Exit Slip

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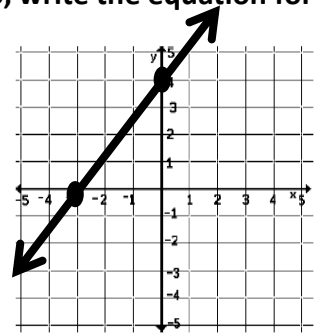

8.F.4

Exit Slip

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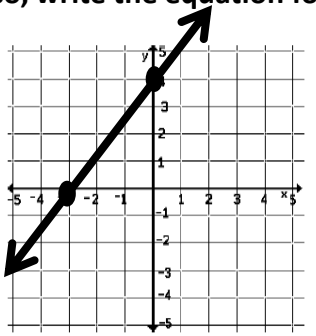

8.F.4

Exit Slip

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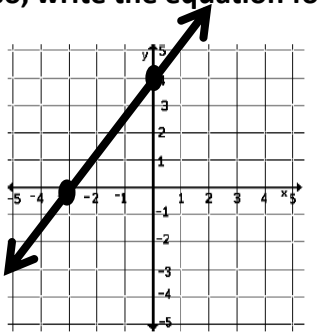

8.F.4

Exit Slip

Name: _____ Date: _____

Find the rate of change between the two ordered pairs (4, 5) and (-2, -7)

Rate of Change: 2

8.F.4

Exit Slip

Name: _____ Date: _____

Find the rate of change between the two ordered pairs (4, 5) and (-2, -7)

Rate of Change: 2

8.F.4

Exit Slip

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Rate of Change: 2

8.F.4

Exit Slip

Name: _____ Date: _____

Find the rate of change between the two ordered pairs (4, 5) and (-2, -7)

Rate of Change: 2

8.F.4

Exit Slip

Name: _____ Date: _____

What is the slope of the line $2y = 4x + 6$?

Slope: 2

8.F.4

Exit Slip

Name: _____ Date: _____

What is the slope of the line $2y = 4x + 6$?

Slope: 2

8.F.4

Exit Slip

Name: _____ Date: _____

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Slope: 2

8.F.4

Exit Slip

Name: _____ Date: _____

What is the slope of the line $2y = 4x + 6$?

Slope: 2

8.F.4

Exit Slip

Name: _____ Date: _____

What are the intercepts of the equation $6x + 2y = 12$?

x – intercept: (2, 0)

y – intercept: (0, 6)

8.F.4

Exit Slip

Name: _____ Date: _____

What are the intercepts of the equation $6x + 2y = 12$?

x – intercept: (2, 0)

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8.F.4

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Exit Slip

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x – intercept: (2, 0)

y – intercept: (0, 6)

8.F.4

Exit Slip

Name: _____ Date: _____

The middle school band wants to sell t-shirts for a fundraiser. There is two different companies to choose from. The first company has a flat design rate of $40 and charges $7 per shirt. The second company has a flat design rate of $65 and a charge of $6 per shirt. The band plans to sell over 100 t-shirts. Which company should they choose?

Second Company

8.F.4

Exit Slip

Name: _____ Date: _____

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Second Company

8.F.4

Exit Slip

Name: _____ Date: _____

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Second Company

8.F.4

Exit Slip

Name: _____ Date: _____

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Second Company

8.F.4

Exit Slip

Name: _____ Date: _____

Determine the slope and y – intercept of the line represented by the following equations.

a. $y + 2 = 4(x - 1)$ Slope: 4 y – int: (0, -6)

b. $y = \frac{1}{4}x - 2$ Slope: $\frac{1}{4}$ y – int: (0, -2)

8.F.4

Exit Slip

Name: _____ Date: _____

Determine the slope and y – intercept of the line represented by the following equations.

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8.F.4

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8.F.4

Exit Slip

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b. $y = \frac{1}{4}x - 2$ Slope: $\frac{1}{4}$ y – int: (0, -2)

8.F.4

Exit Slip

Name: _____ Date: _____

Consider the linear equation $2x + 3y = 12$.
Complete the table.

X	Y
6	0
0	4
3	2

8.F.4

Exit Slip

Name: _____ Date: _____

Consider the linear equation $2x + 3y = 12$.
Complete the table.

X	Y
6	0
0	4
3	2

8.F.4

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Complete the table.

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8.F.4

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Consider the linear equation $2x + 3y = 12$.
Complete the table.

X	Y
6	0
0	4
3	2

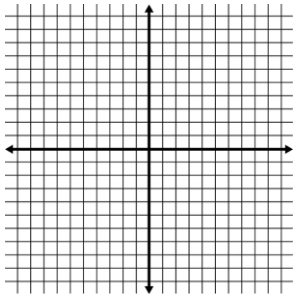
8.F.4

Exit Slip

Name: _____ Date: _____

Find the rate of change of the following table then graph the function on the coordinate plane.

x	1	2	3
y	4	6	8



Rate of change: 2

8.F.4

Exit Slip

Name: _____ Date: _____

Find the rate of change of the following table then graph the function on the coordinate plane.

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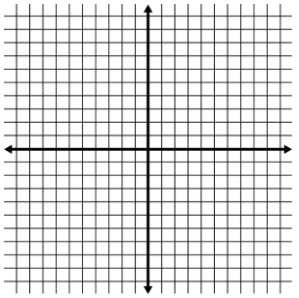

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8.F.4

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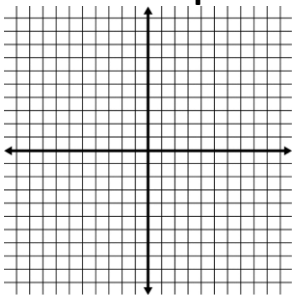

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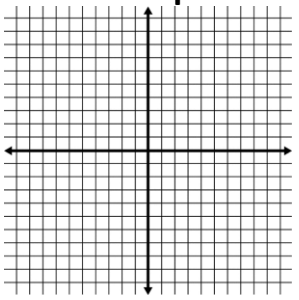


Rate of change: 2

8.F.4

Exit Slip

Name: _____ Date: _____

Explain the difference between a linear graph and non-linear graph.

Answers will vary

8.F.5

Exit Slip

Name: _____ Date: _____

Explain the difference between a linear graph and non-linear graph.

Answers will vary

8.F.5

Exit Slip

Name: _____ Date: _____

Explain the difference between a linear graph and non-linear graph.

Answers will vary

8.F.5

Exit Slip

Name: _____ Date: _____

Explain the difference between a linear graph and non-linear graph.

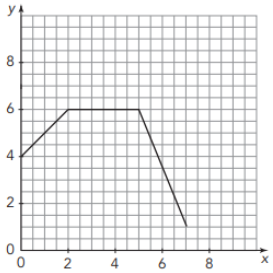
Answers will vary

8.F.5

Exit Slip

Name: _____ Date: _____

The graph represents Alex's distance from home (miles) after x amount of hours



a. How far was Alex from home after 2 hours?

6 miles

b. How fast did Alex travel from 0 to 2 hours?

1 mile per hour

8.F.5

Exit Slip

Name: _____ Date: _____

The graph represents Alex's distance from home (miles) after x amount of hours

a. How far was Alex from home after 2 hours?

6 miles

b. How fast did Alex travel from 0 to 2 hours?

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8.F.5

Exit Slip

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8.F.5

Exit Slip

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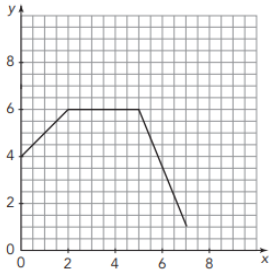


a. How far did Alex travel between 2 and 4 hours?

0 miles

b. How fast did he travel during this time? Explain

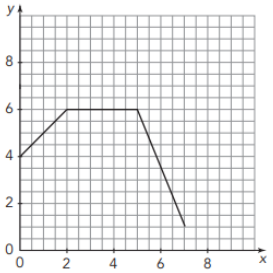
0 miles per hour, Alex wasn't moving

8.F.5

Exit Slip

Name: _____ Date: _____

The graph represents Alex's distance from home (miles) after x amount of hours



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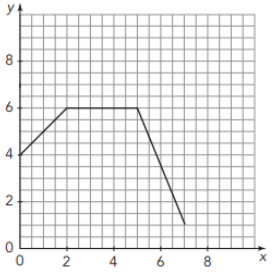

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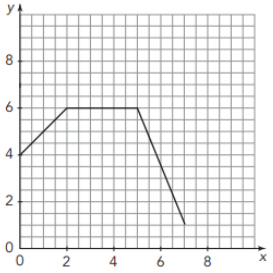

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8.F.5

Exit Slip

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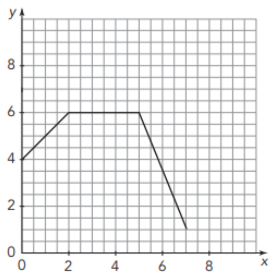


Give a description of Alex's journey from 5 hours to 7 hours

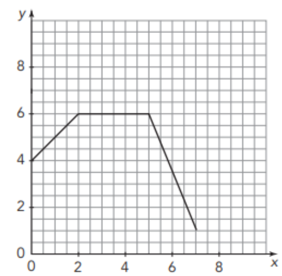
Answers will vary

8.F.5

Exit Slip

Name: ______________________ Date: ______

The graph represents Alex's distance from home (miles) after x amount of hours



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Answers will vary

8.F.5

Exit Slip

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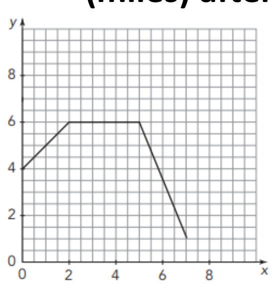

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Answers will vary

8.F.5

Exit Slip

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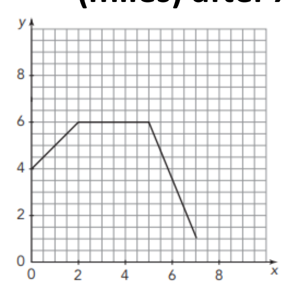

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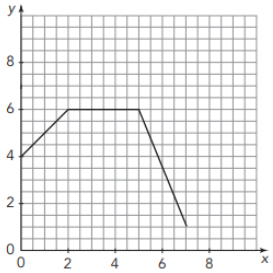

Explain why it makes sense for the graph of this situation to be continuous rather than discrete?

Answers will vary

8.F.5

Exit Slip

Name: _____ Date: _____

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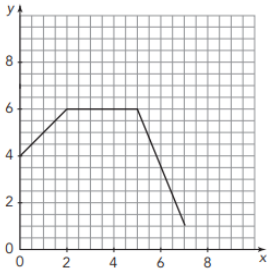

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Answers will vary

8.F.5

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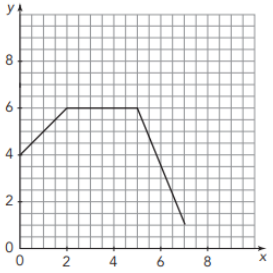

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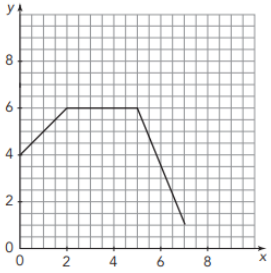

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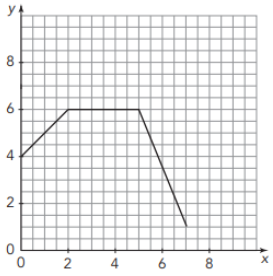


Was Alex walking at the same rate the entire time? Explain using mathematics and the graph.

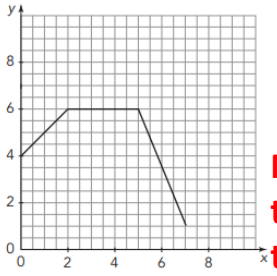
No because the slope is not the same rate throughout the entire graph

8.F.5

Exit Slip

Name: _____ Date: _____

The graph represents Alex's distance from home (miles) after x amount of hours



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8.F.5

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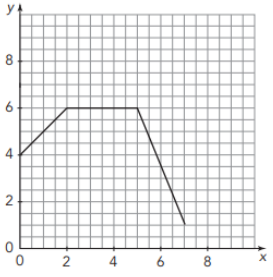

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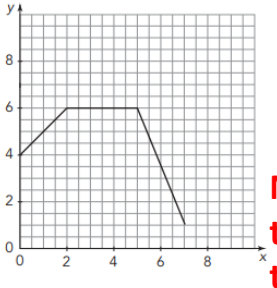

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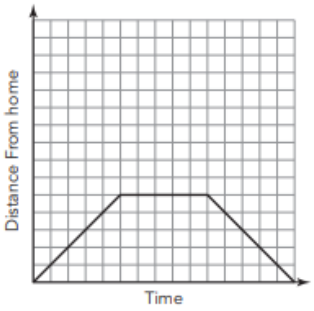
Exit Slip

Name: _____ Date: _____

Write a story that matches the following graph:



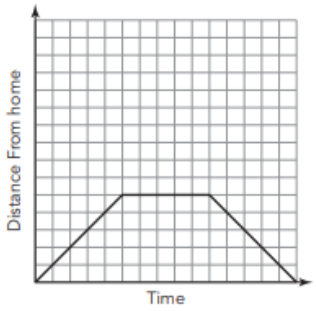
Answers will vary

8.F.5

Exit Slip

Name: _____ Date: _____

Write a story that matches the following graph:



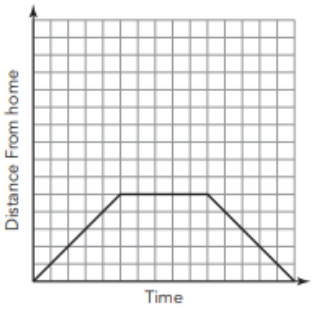
Answers will vary

8.F.5

Exit Slip

Name: _____ Date: _____

Write a story that matches the following graph:



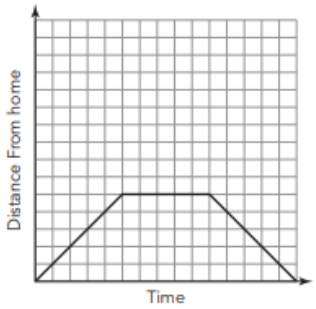
Answers will vary

8.F.5

Exit Slip

Name: _____ Date: _____

Write a story that matches the following graph:



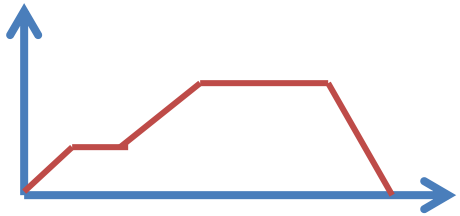
Answers will vary

8.F.5

Exit Slip

Name: _____ Date: _____

Zach left home to go to school and on his way he stopped to talk to his neighbor. Then he kept walking until he got to school. After school he ran home. Sketch a graph of the following situation.



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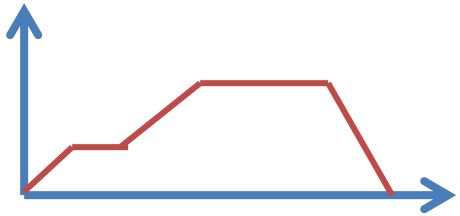

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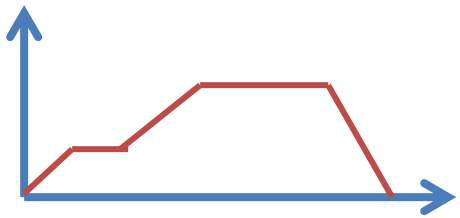

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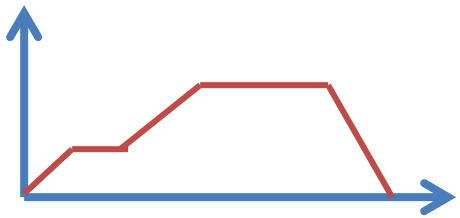
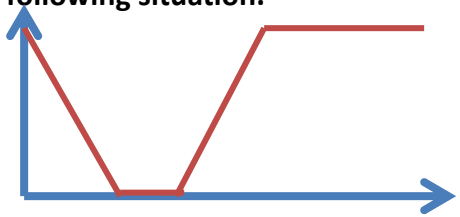


8.F.5

Exit Slip

Name: _____ Date: _____

Erica spent the night at her friends house. That evening she realized she forgot her toothbrush and drove back to her house to get it and then back to her friends house to stay the night. Sketch a graph of her distance from home of the following situation.



8.F.5

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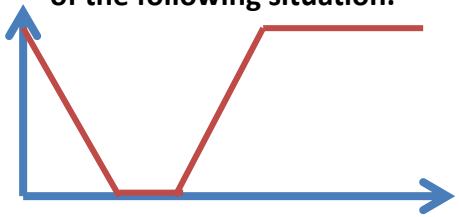

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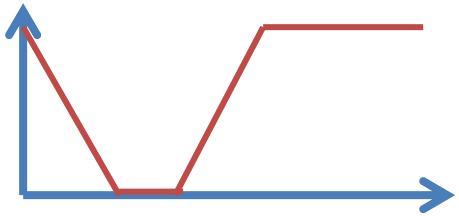

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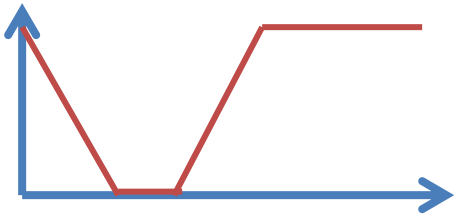
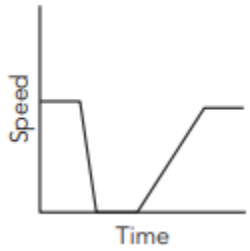


8.F.5

Exit Slip

Name: _____ **Date:** _____

Write a short story that represents the following graph.



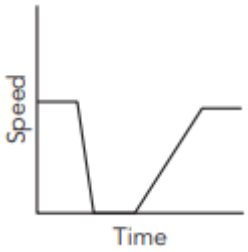
Answers will vary

8.F.5

Exit Slip

Name: _____ **Date:** _____

Write a short story that represents the following graph.



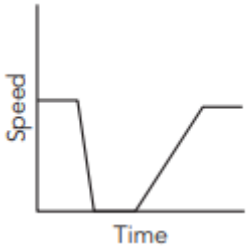
Answers will vary

8.F.5

Exit Slip

Name: _____ **Date:** _____

Write a short story that represents the following graph.



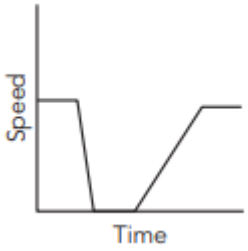
Answers will vary

8.F.5

Exit Slip

Name: _____ **Date:** _____

Write a short story that represents the following graph.



Answers will vary

8.F.5

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Thank you for respecting my work!

~Math in the Midwest