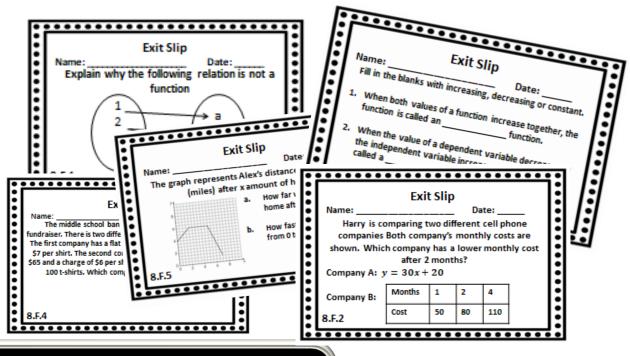
8th Grade Math CCSS Exit Slips Functions



8.F.1

8.F.2

8.F.3

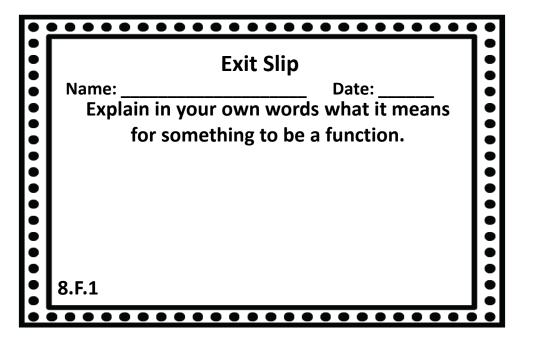
8.F.4

8.F.5

50 Exit Slips/Exit Tickets
10 Questions Per Standard



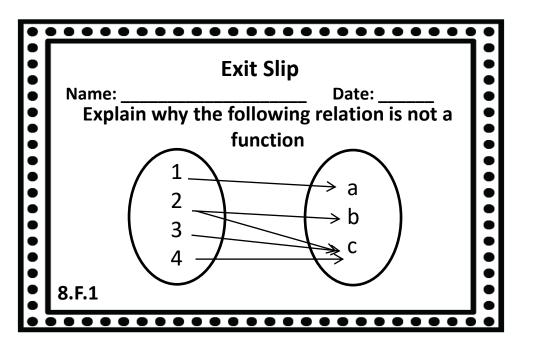
By: Math in the Midwest

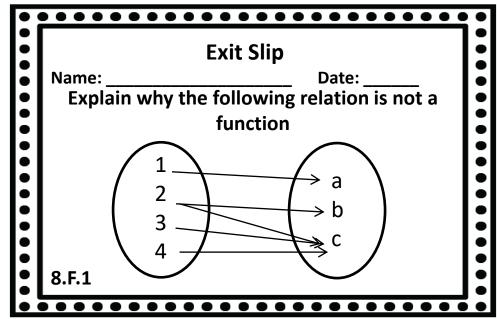


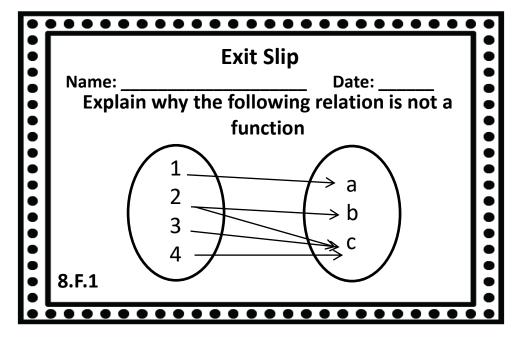
•		
•	Exit Slip	•
•	Name: Date:	•
•	Explain in your own words what it means	
•	for something to be a function.	•
•		•
•		•
•		
•	8.F.1	
•	0.1.1	

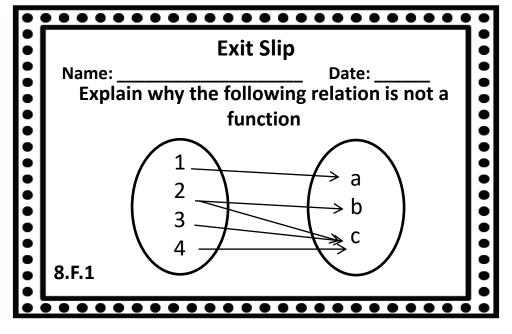
	Exit Slip	
	Name: Date:	
•	Explain in your own words what it means	•
	for something to be a function.	
•		
•		•
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•	8.F.1	•
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	Exit Slip
<u> </u>	Date: own words what it means
for someth	ning to be a function.
8.F.1	









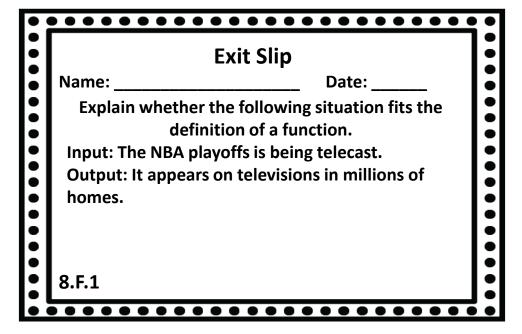
Exit Slip Name: _____ Date: ____ Determine if the following sequences represent a function. Explain why or why not a. 3, 6, 9, 12, 15, ... b. 0, 10, 20, 30, 40, ... 8.F.1

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•		
	Exit Slip	•
	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,	
	8.F.1	
•		

	Exit Slip
Name:	Date:
	ollowing sequences represent a Explain why or why not
a. 3, 6, 9, 12, 15,	
b. 0, 10, 20, 30,	40,
8.F.1	

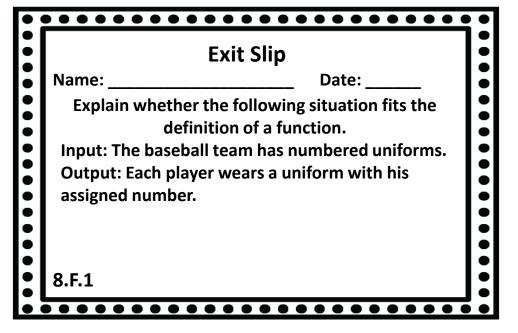
Exit Slip Name: ______ Date: ____ Explain whether the following situation fits the definition of a function. Input: The NBA playoffs is being telecast. Output: It appears on televisions in millions of homes. 8.F.1



•	• • • • • • • • • • • • • • • • • • • •	
	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.	•
•		
•	8.F.1	•
•		•

	Exit Slip
Name:	Date:
-	ner the following situation fits the efinition of a function.
Input: The NBA	playoffs is being telecast.
Output: It appe homes.	ears on televisions in millions of
0.54	
8.F.1	

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.



•	• • • • • • • • • • • • • • • • • • • •	
•	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.	
•••••	8.F.1	
•		

Exit Slip
Date:
ne following situation fits the ion of a function.
team has numbered uniforms. wears a uniform with his

Name: _____ Date: ____

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

Exit Slip

Name: _____ Date: ____

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

Exit Slip

Name: _____ Date: ____

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

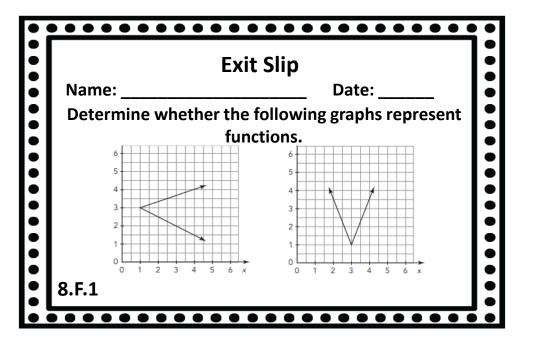
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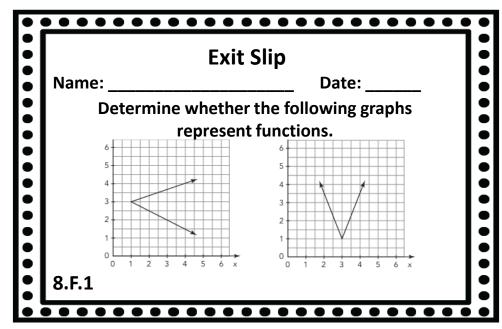
Name: _____ Date: ____

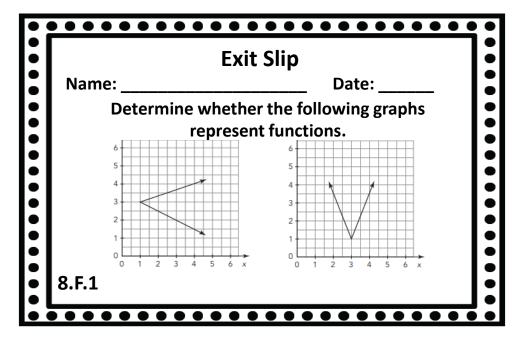
Determine whether the following relations are functions.

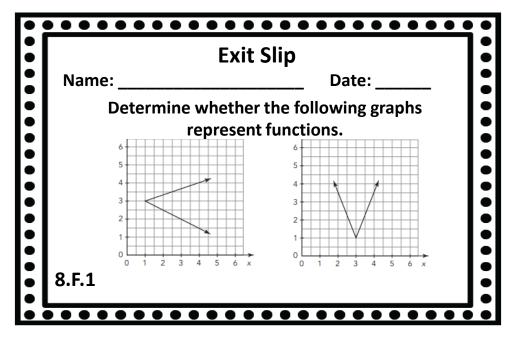
•••••••

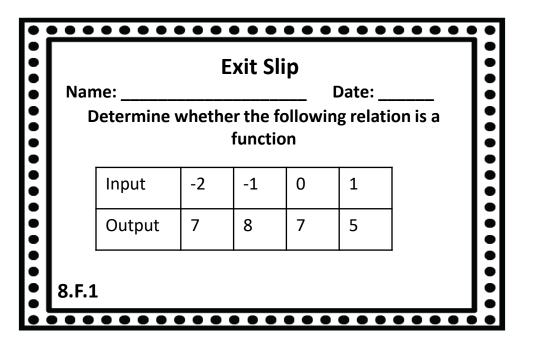
- a. {(3, 4), (4, 7), (5, 12), (6, 12)}
- b. {(1, 4), (1, 5), (1, 6), (1, 7)}
- 8.F.1

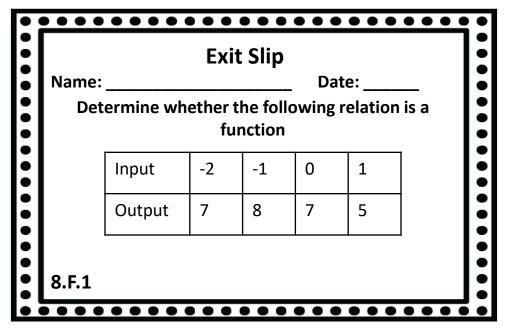












Exit Slip Name: Date: Determine whether the following relation is a function						 n is a
Input	-2 -1	-1	0	1		
	Output	7	8	7	5	

	Ex	it Slip)		
Name:			D	ate:	
Determine w		the founctio		g relatio	n is a
Input	-2	-1	0	1	
Output	7	8	7	5	
8.F.1	•	•	•	•	_

Name: _____ Date: ____

Determine if the following equations represent functions

a.
$$y = 2x + 1$$

b.
$$x = 4$$

c.
$$y = x^2$$

8.F.1

Exit Slip

••••••

Name: _____ Date: ____

Determine if the following equations represent functions

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8.F.1

Exit Slip

Name: _____ Date: ____

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8.F.1

Exit Slip

Name: _____ Date: ____

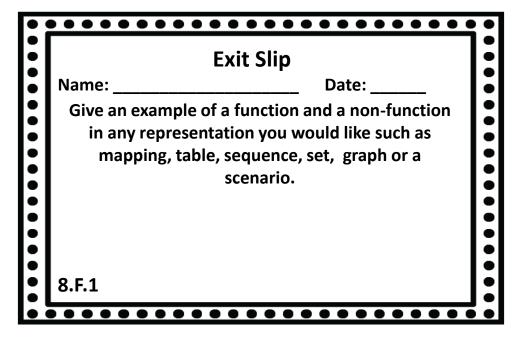
Determine if the following equations represent functions

a.
$$y = 2x + 1$$

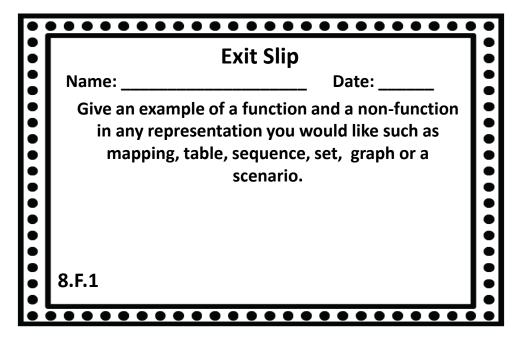
$$b. \quad x=4$$

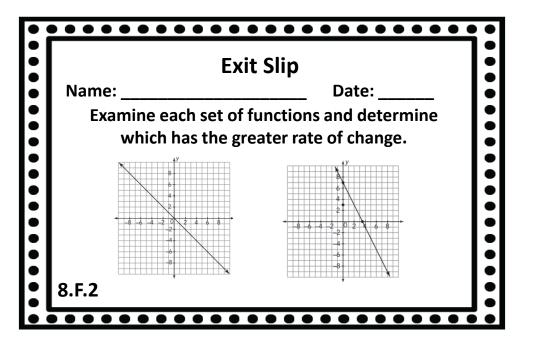
$$c. \quad y = x^2$$

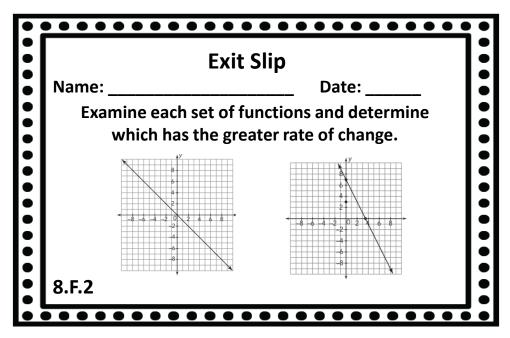
Exit Slip Name: ______ Date: ____ Give an example of a function and a non-function in any representation you would like such as mapping, table, sequence, set, graph or a scenario. 8.F.1

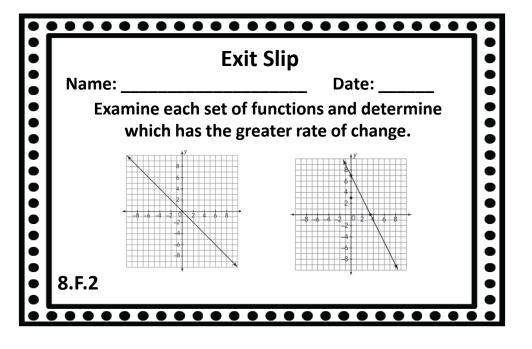


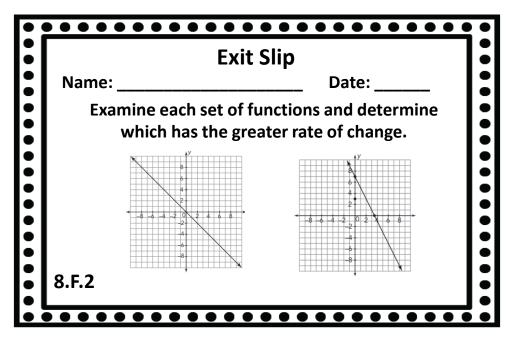
		•
	Exit Slip	
	Name: Date:	
•	Give an example of a function and a non-function in any representation you would like such as mapping, table, sequence, set, graph or a	•
•	scenario.	•
• •		•
	8.F.1	
•	• • • • • • • • • • • • • • • • • • • •	•











••••••

Name: _____ Date: ____

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

a.
$$y = 2x + 3$$

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

8.F.2

Exit Slip

Name: _____ Date: ____

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

a.
$$y = 2x + 3$$

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

8.F.2

Exit Slip

Name: _____ Date: ____

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

•••••••

a.
$$y = 2x + 3$$

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

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

Name: _____ Date: ____

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

a.
$$4x + y = 8$$

b.
$$3x + 6y = 12$$

8.F.2

Exit Slip

••••••

Name: _____ Date: ____

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

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$$4x + y = 8$$

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8.F.2

Exit Slip

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•••••••

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$$3x + 6y = 12$$

8.F.2

Exit Slip

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a.
$$4x + y = 8$$

b.
$$3x + 6y = 12$$

•••••	••••	• •	• • •	• • •	••••			
	Exi	t Slip						
Name:	Name: Date: Harry is comparing two different cell phone							
companies	. •			•				
shown. Whic	h compan after 2	•		month!	y cost			
Company A: 3	-		115:					
Company B:	Months	1	2	3				
8.F.2	Cost	50	80	110				

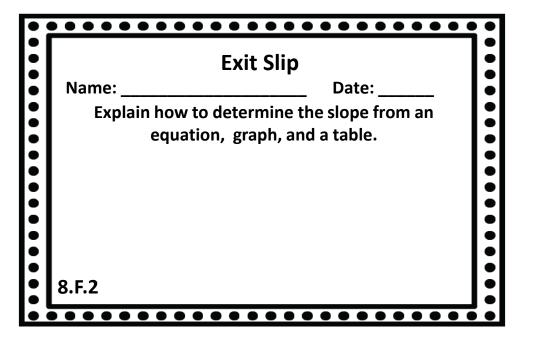
	Exit	Slip						
Name: Date:								
Harry is co companies shown. Which Company A: 3	Both comp n company after 2	oany's / has a mont	montl lower	nly cost	s are			
Company B:	ompany B: Months 1 2 3							
8.F.2 Cost 50 80 110								

•	• • • • • •	• • • •	• • •	• • •		••••				
		Exi	t Slip)			ŀ			
	Name: Date:									
••••••	Harry is conpanies shown. Whice Company A:	Both compan ch compan after 2	ipany' iy has 2 mon	s mont a lowe	thly cos	ts are				
	Company B:	Months	1	2	3		ľ			
•	8.F.2	Cost	50	80	110					
		••••	•••	• • •	• • •	• • •				

	Exit	Slip]		
Name: Date:								
Harry is co companies shown. Which Company A:	Both company after 2	oany's / has a mont	month lower	nly cost	s are			
Company B:	Months 1 2 3							
8.F.2	Cost 50 80 110							
						֓֞֝֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֓֡֓֡֓֡֓֡֓֡֓֡֝֡֓֡֓֡֓֡֡֡֡֡֡		

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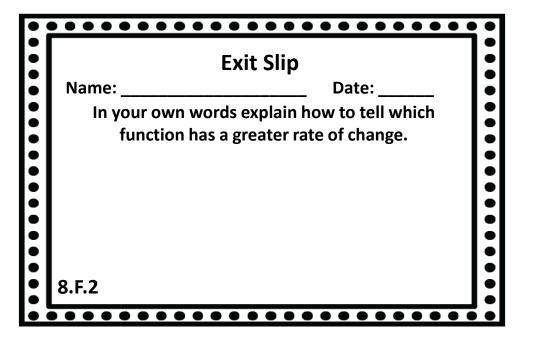
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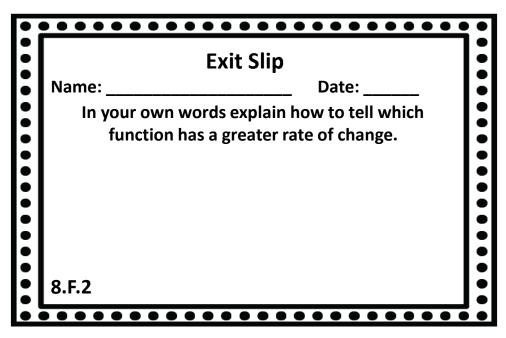


•		
•	Exit Slip	•
•	Name: Date:	•
	Explain how to determine the slope from an equation, graph, and a table.	•
•	, , , , , , , , , , , , , , , , , , , ,	•
•		•
	8.F.2	
	0.6.4	

	Exi	t Slip	•
	Name:	Date:	
• • • •	-	ermine the slope from an raph, and a table.	•
•			•
•			•
•	8.F.2		•
•	0.6.2		

•	• • • • • • •	• • • • • • • • • • • • • • • •	
		Exit Slip	:
	Name:	Date:	:
• • • •	-	to determine the slope from an tion, graph, and a table.	• • • •
•			
	8.F.2		
•		• • • • • • • • • • • • • •	





•	Ex	tit Slip	
	Name:	Date:	31
•		explain how to tell which greater rate of change.	
•			
•			
•	8.F.2		
		••••••	

	Exit Slip
Name:	Date:
-	words explain how to tell which has a greater rate of change.
8.F.2	

Exit Slip

Name: _____ Date: ____

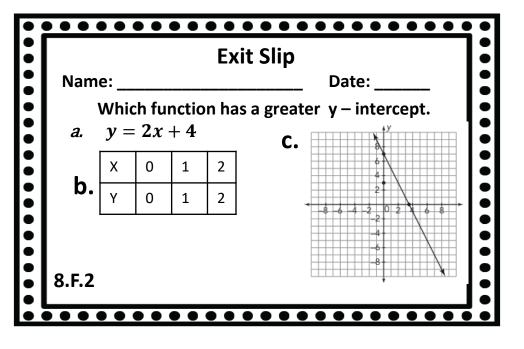
Which function has a greater y – intercept.

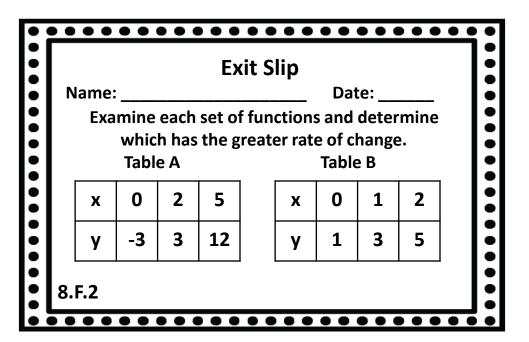
a. y = 2x + 4c. x = 0 y = 0

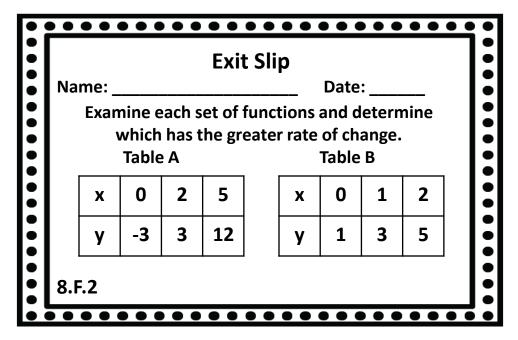
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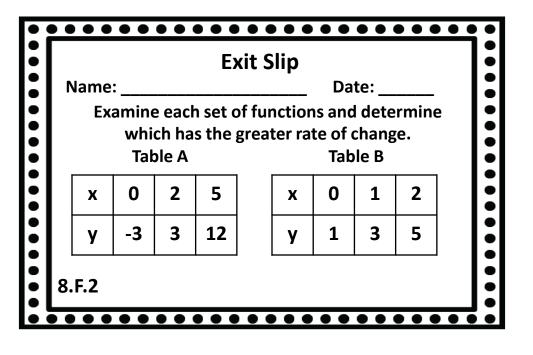
				E	xit Slip
Nam	ie: _				Date:
	Whi	ich fu	ıncti	on h	as a greater y – intercept.
<i>a.</i>	y =	= 2 <i>x</i>	+ 4		c.
Ī	Х	0	1	2	4
b.	Υ	0	1	2	-8-6-4-2-0-2-6
		1	1	1	4
8.F.2	2				-8

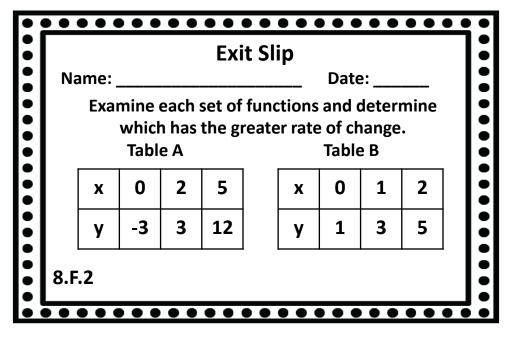
				Ex	it Slip
Nam	e:				Date:
	Whi	ch fu	nctio	n ha	s a greater y – intercept.
а.	y =	= 2 <i>x</i>	+ 4		c.
L	Х	0	1	2	4
b.	Υ	0	1	2	8 4 4 2 0 2 4 4 8
		1		'	-2-
					-6+
8.F.2					
3.F.2					-8

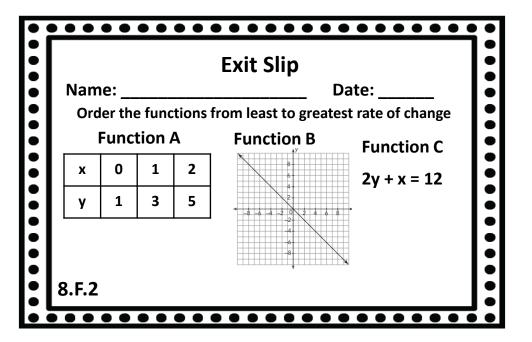


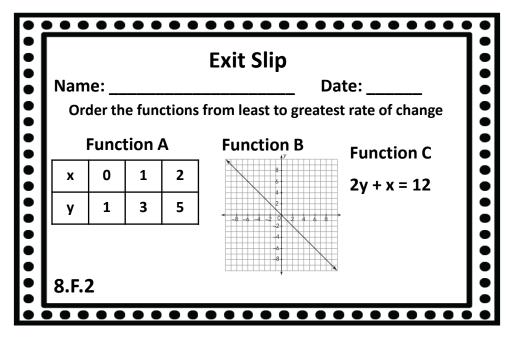


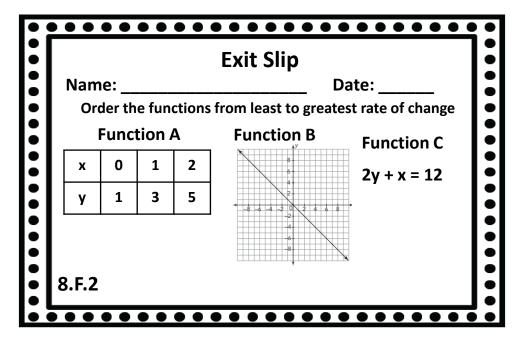


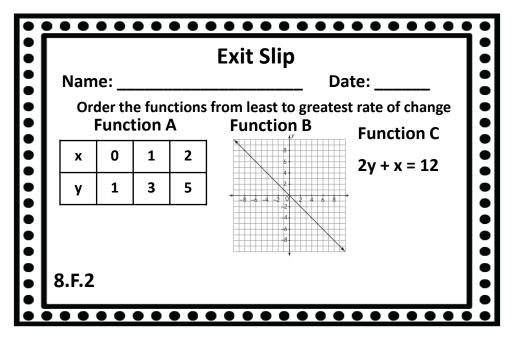


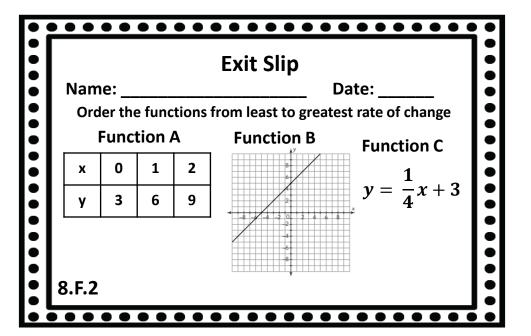


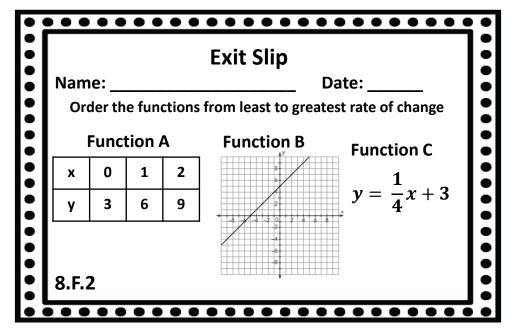




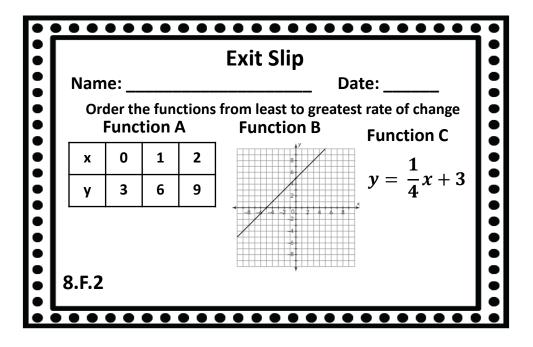








				Exit Slip	
Nam	ne:				Date:
Or	der th	e fun	ctions	from least to greate	est rate of change
	Func	tion	A	Function B	Function C
х	0	1	2	8	1
У	3	6	9	2	$y = \frac{1}{4}x + 3$
	•	•		-8 -2 0 2 4 6 8 -2 -2 4 6 8	
				-6-	
3.F.2					



Name: _____ Date: ____

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

$$a. \quad y = |x|$$

b.
$$y = 3x - 1$$

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

8.F.3

Exit Slip

••••••

Name: _____ Date: ____

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

$$a. \quad y = |x|$$

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

8.F.3

Exit Slip

Name: _____ Date: ____

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8.F.3

Exit Slip

Name: _____ Date: ____

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

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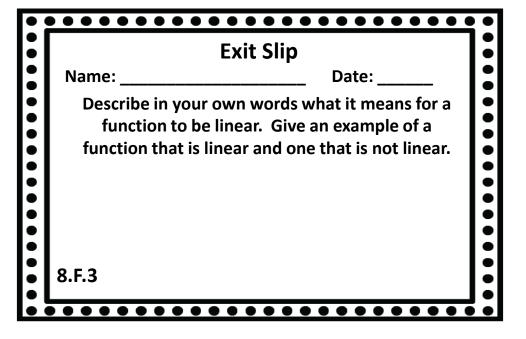
b.
$$y = 3x - 1$$

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

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

Exi	it Slip
function to be line	Date: words what it means for a ar. Give an example of a rand one that is not 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.	• • • • • • •
•••••	8.F.3	• • • • •



Exit Slip

Name: _____ Date: ____

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

•	• • • • • • • • • • • • • • • • • • • •	•
	Exit Slip	•
•	Name: Date:	•
	Explain why the equation $oldsymbol{y} = oldsymbol{4} x + oldsymbol{1}$ is linear.	•
•		•
		•
		:
•		•
		•
•	0.00	•
•	8.F.3	•

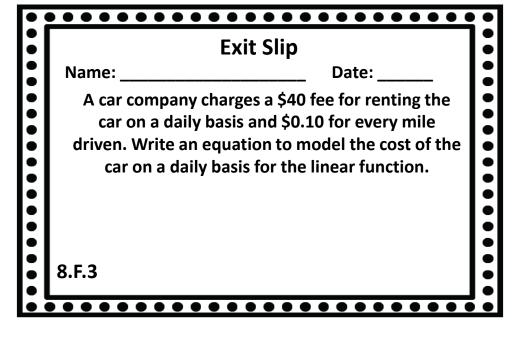
	E	xit Slip
N	ame:	Date:
	Explain why the ed	juation $y = 4x + 1$ is linear.
8.1	F.3	

•		 	
		Exit Slip	•
	Name:	Date:	
•	Explain why	y the equation $oldsymbol{y} = oldsymbol{4} x + oldsymbol{1}$ is linear.	•
•			•
•			•
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•	8.F.3		•
	0.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.

E	Exit Slip
Name:	Date:
car on a daily bas driven. Write an equ	rges a \$40 fee for renting the sis and \$0.10 for every mile uation to model the cost of the
cai on a dany ba	sis for the linear function.
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	• • •
	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.



•	• • • • • • • • • • • • • • • • • • • •	•
	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.
ı	
	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	
•		

E	xit 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	
0.11.3	

	Exit Slip
Name:	Date:
Determine whethe	r the following statements are true or false.
1. A functi	on whose graph is linear is a curved
2. Some lin	near functions are proportional and
3. Every lin	ne is a linear function.

	Exit Slip
Name:	Date:
Determi	ne whether the following statements are true or false.
line.	1. A function whose graph is linear is a curved
others are	2. Some linear functions are proportional and not.
	3. Every line is a linear function.
8.F.3	3. Every line is a linear function.

	Exit Slip
Name:	Date:
Determine who	ether the following statements are true or false.
1. A fo	unction whose graph is linear is a curved
2. Sor others are not.	me linear functions are proportional and
	ery line is a linear function.
8.F.3	,

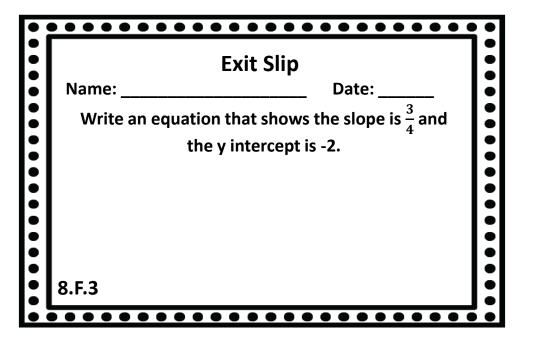
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Name:	Date:	:		
• Deterr	nine whether the following statements are true or false.			
line.	1. A function whose graph is linear is a curved	•		
others a	2. Some linear functions are proportional and are not.			
8.F.3	3. Every line is a linear function.			
•				

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 t	the blanks with increasing, decreasing or constant.
•	en both values of a function increase together, the ction is called an function.
the	en the value of a dependent variable decreases as independent variable increases the function is ed a function.
8.F.3	

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•	1.	When both values of a function increase together, the function is called an function.			
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:	Name: Date:	:
	Fill in the blanks with increasing, decreasing or constant.	:
	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	3.F.3	•
• =	• • • • • • • • • • • • • • • • • • • •	5 •



	Exit Slip	ľ
	Name: Date:	ľ
	Write an equation that shows the slope is $\frac{3}{4}$ and	
1	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	
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	8.F.3	

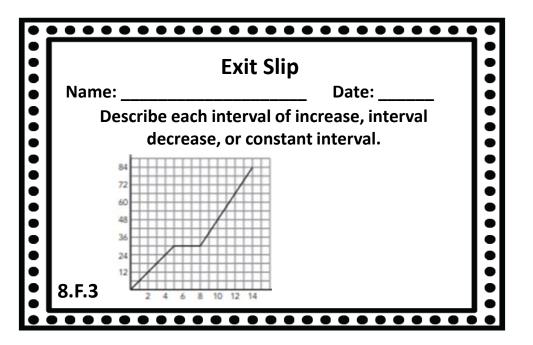
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	Write an equation that shows the slope is $\frac{3}{4}$ and	:
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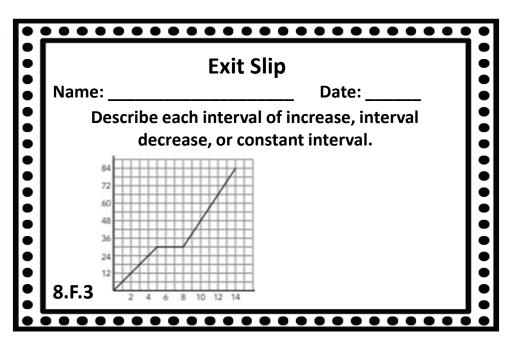
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	2. Decreasing	B. Negative slope	•
•	3. Constant 8.F.3	C. Positive slope	

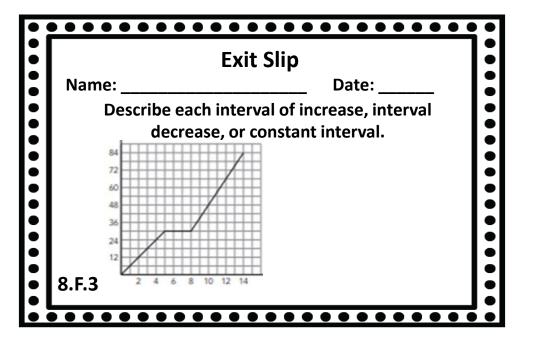
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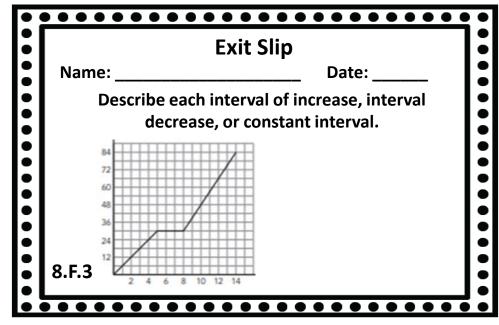
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•	3. Constant 8.F.3	C. Positive slope	

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2. Decreasing	B. Negative slope
3. Constant	C. Positive slope
8.F.3	







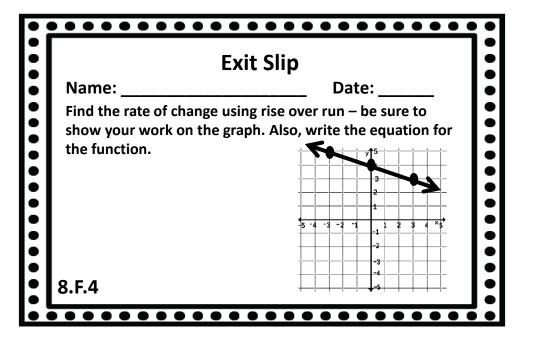


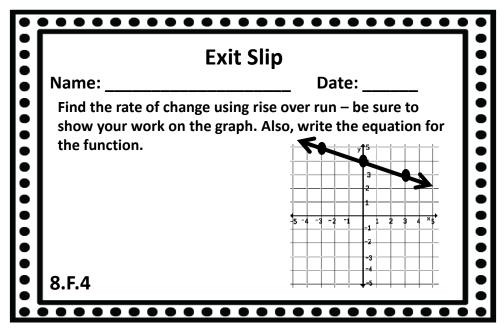
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	A graph is a graph of isolated	
•	points and a graph is a graph	•
	with no breaks in it.	
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	Fill in the blanks A graph is a graph of isolated points and a graph is a graph with no breaks in it.

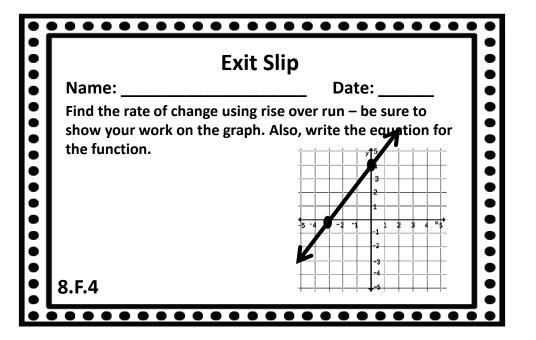
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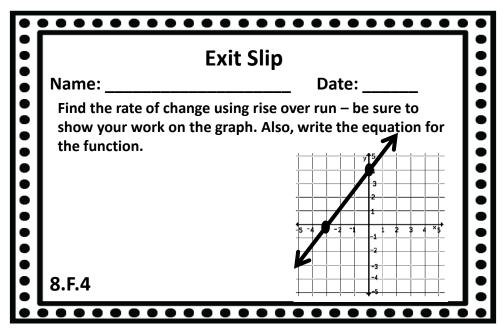




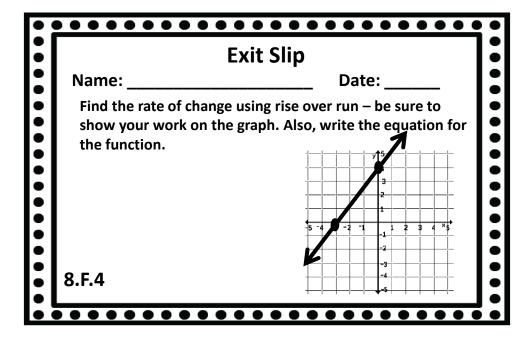
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•	Date: using rise over run – be sure to graph. Also, write the equation for
the function.	3 2 1 1 2 3 4 × 5
8.F.4	-4

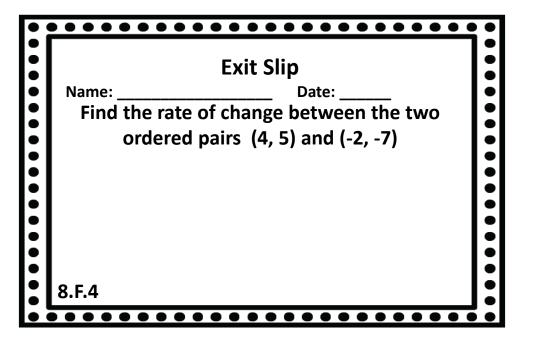
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. •	ng rise over run – be sure to ph. Also, write the equation for
	3 2
	-5 -4 -3 -2 -1 1 2 3 4 × 5
8.F.4	-4





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	Date: ge using rise over run – be sure to the graph. Also, write the equation for
the function.	3 2 1
8.F.4	-5 -4





•	• • • • • • • • • • • • • • • • • • • •	•
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	Name: Date:	
•	Find the rate of change between the two	•
	ordered pairs (4, 5) and (-2, -7)	
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	Name: Date:	
	Find the rate of change between the two ordered pairs (4, 5) and (-2, -7)	
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	8.F.4	

Exit Slip

Name: _____ Date: ____
What is the slope of the line 2y = 4x + 6?

•	• • • • • • • • • • • • • • • • • • • •	
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	What is the slope of the line $2y = 4x + 6$?	•
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	Exit Slip	
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• • • •	What is the slope of the line $2y = 4x + 6$?	•
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• • •	Name: Date:	•
•	What is the slope of the line $2y = 4x + 6$?	•
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	8.F.4	

Exit Slip

Name: _____ Date: ____
What are the intercepts of the equation 6x + 2y = 12?

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•	Exit Slip	•
	Name: Date:	
•	What are the intercepts of the equation $6x + $	•
•	2y = 12?	•
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•	8.F.4	•
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	Exit Slip	
	Name: Date:	
•	What are the intercepts of the equation $6x + 1$	
	2y = 12?	
•		
	8.F.4	

	Exit Slip	
Name: _	Date:	•
What ar	re the intercepts of the equation $6x + 2y = 12$?	••••••
8.F.4		

••••••

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

Name: _____ Date: ____

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8.F.4

Exit Slip

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Name: _____ Date: ____

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8.F.4

Exit Slip

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Name: _____ Date: ____

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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.

••••••

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.

•••••••

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

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

8.F.4

Exit Slip

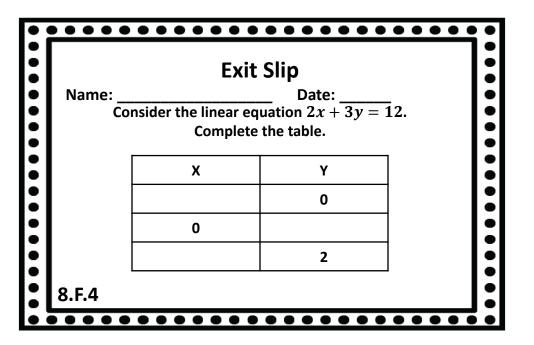
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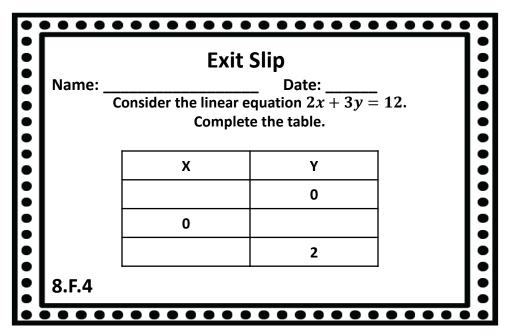
Determine the slope and y – intercept of the line represented by the following equations.

••••••

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

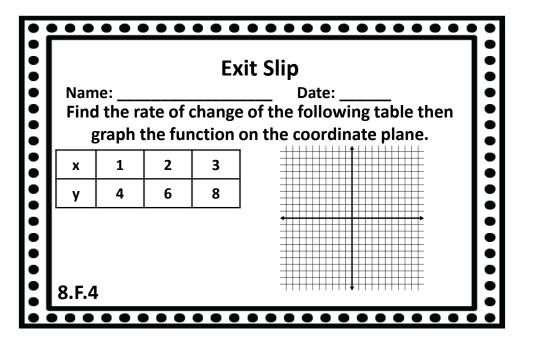
$$b. \ \ y = \frac{1}{4}x - 2$$

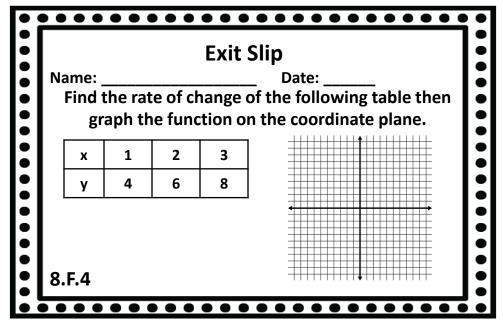


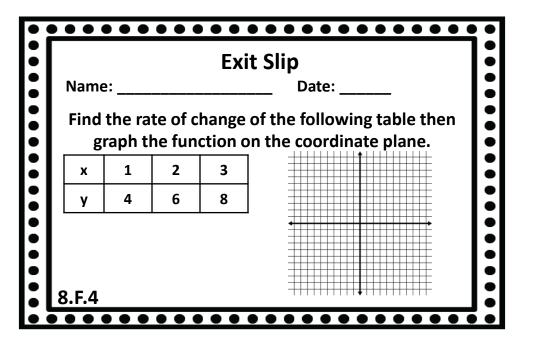


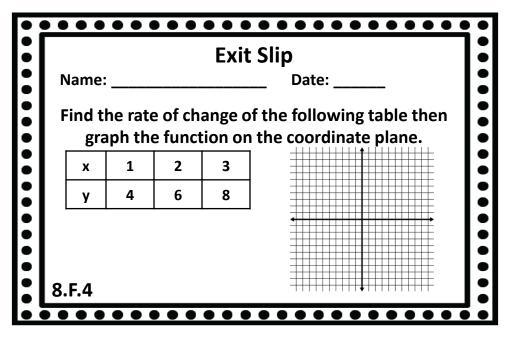
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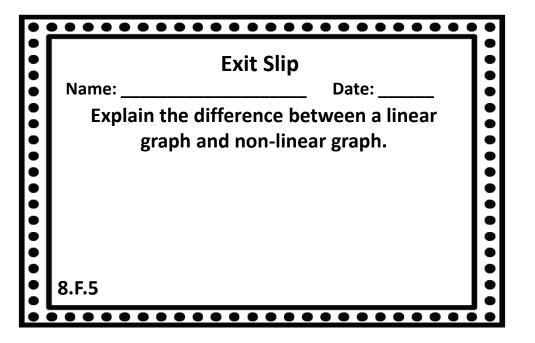
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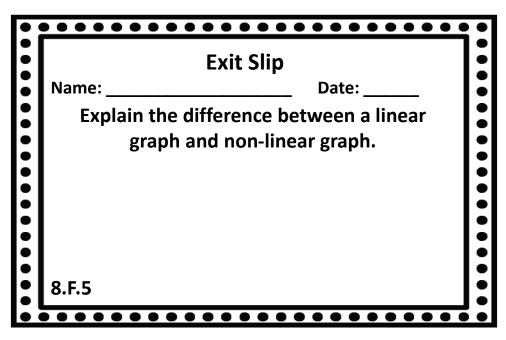






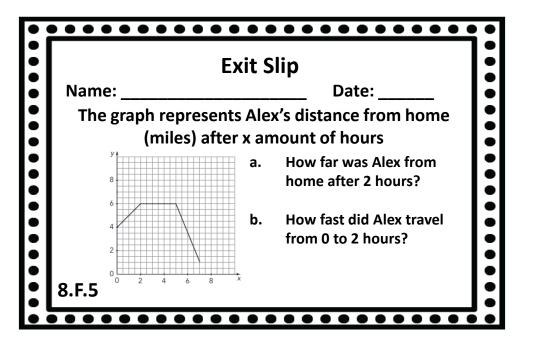


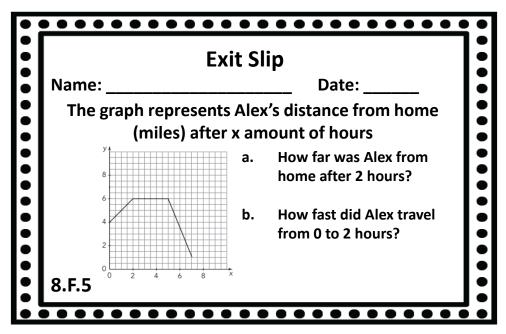


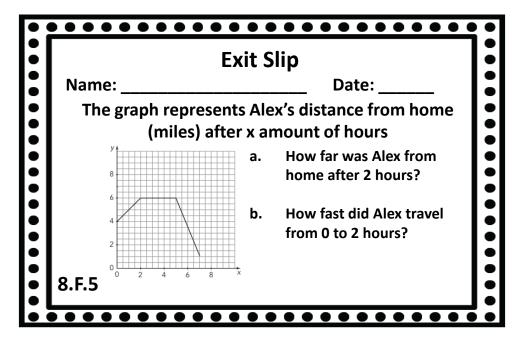


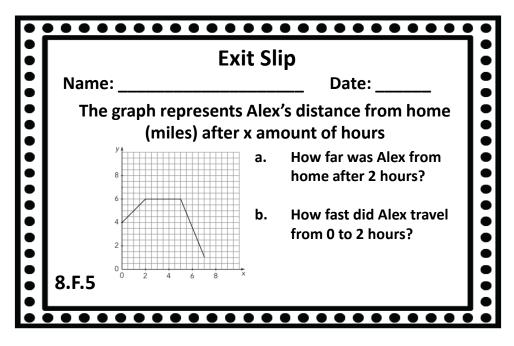
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• •	Explain the difference between a linear graph and non-linear graph.	• •
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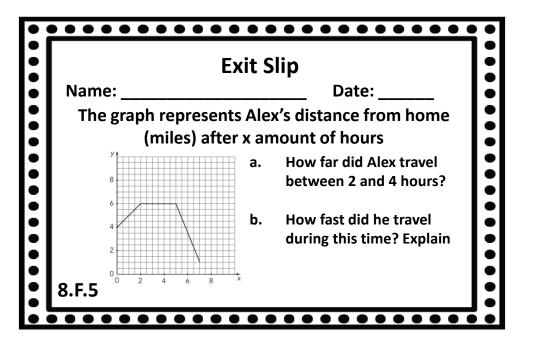
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•	Explain the difference between a linear	
	graph and non-linear graph.	
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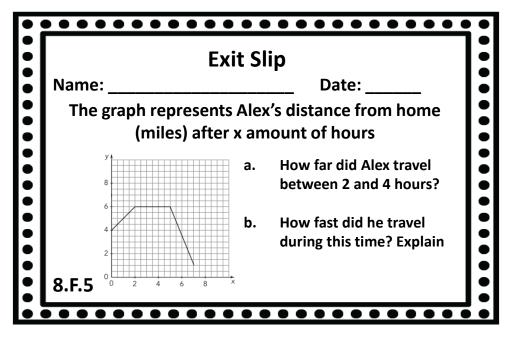


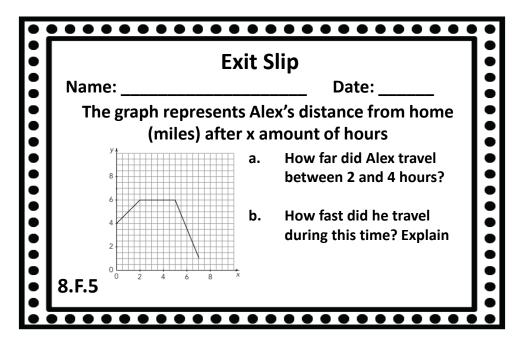


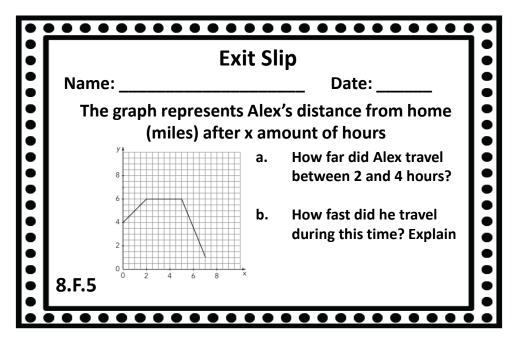


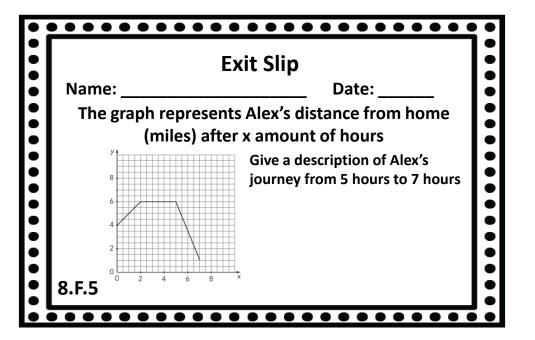


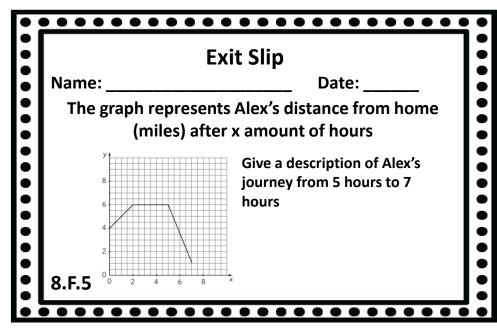


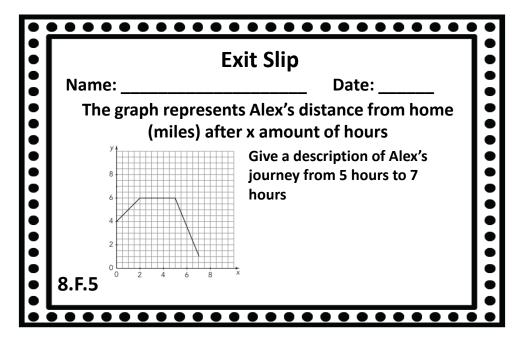


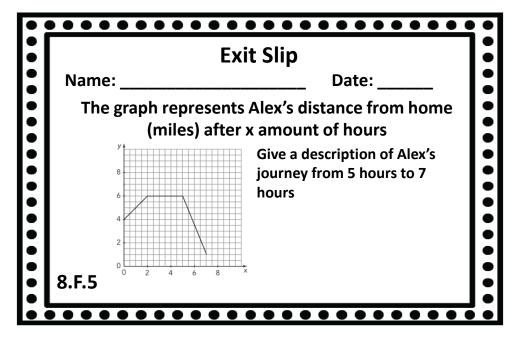


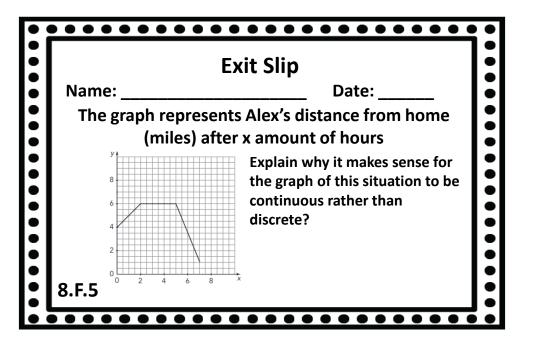


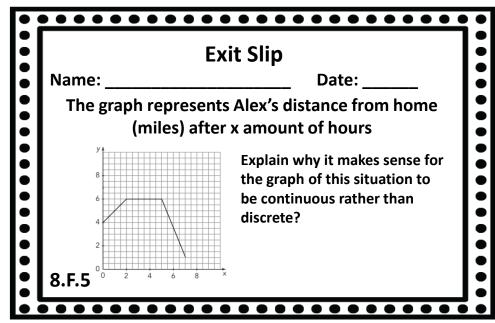


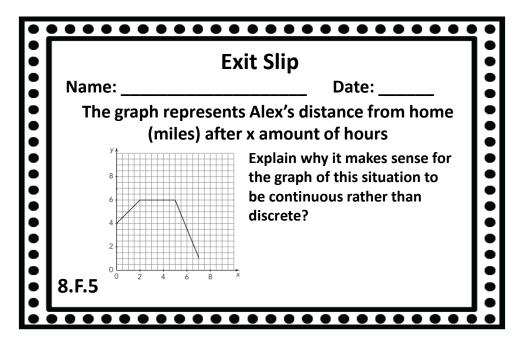


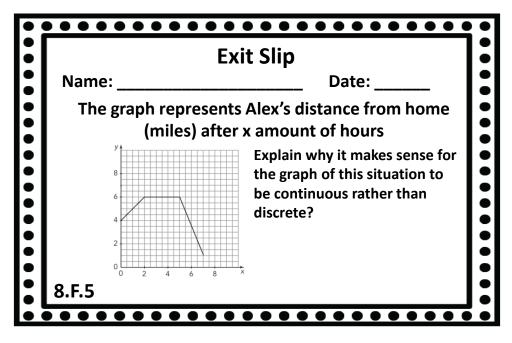


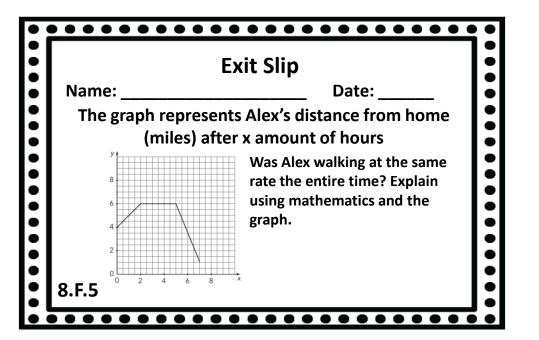


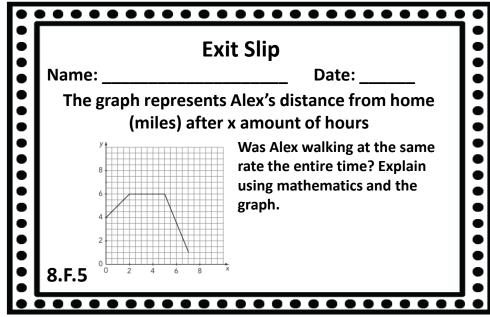


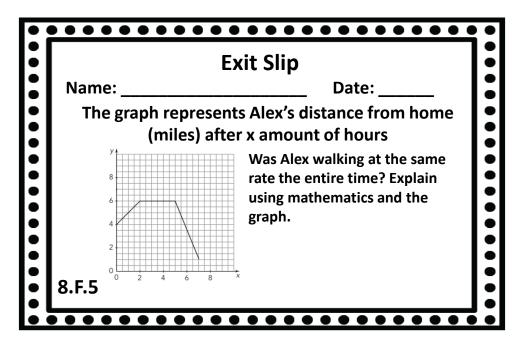


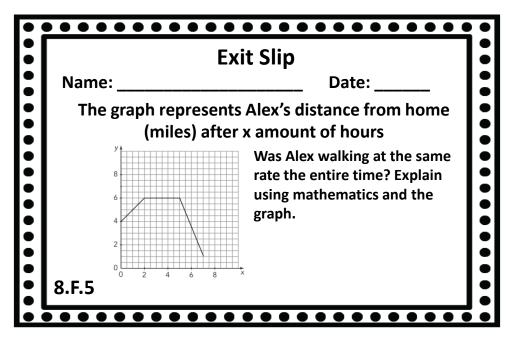


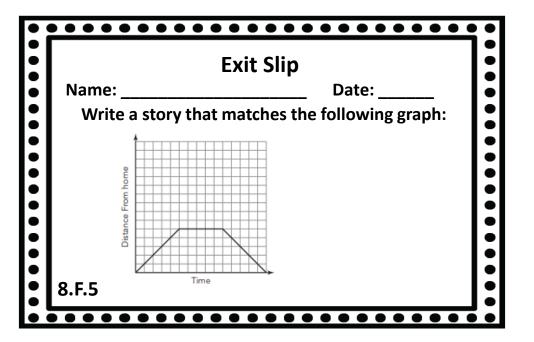


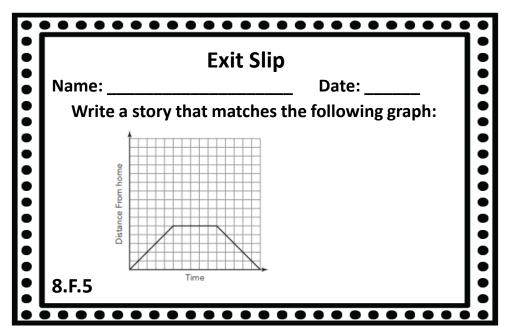


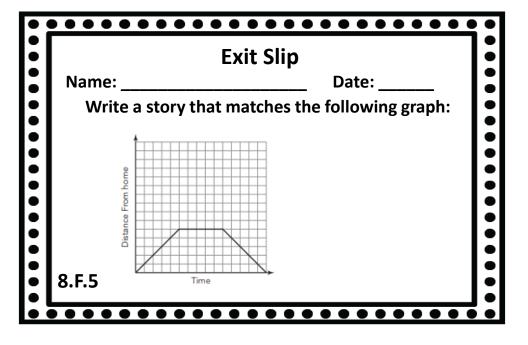


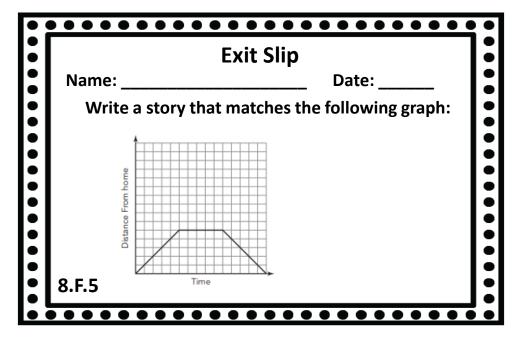




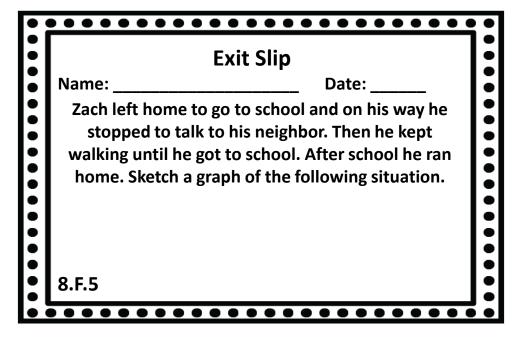




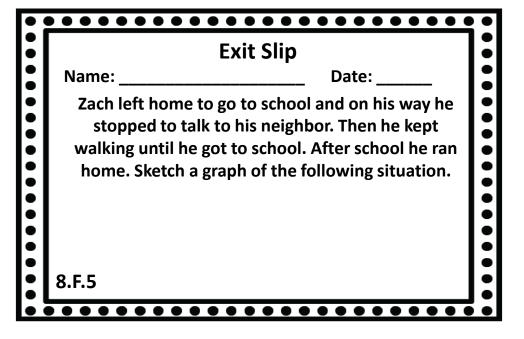




Exit Slip Name: ______ Date: ____ Zach left home to go to school and on his way he stopped to talk to his neighbor. Then he kept walking until he got to school. After school he ran home. Sketch a graph of the following situation. 8.F.5



	Exit Slip	
	Name: Date:	
••••••	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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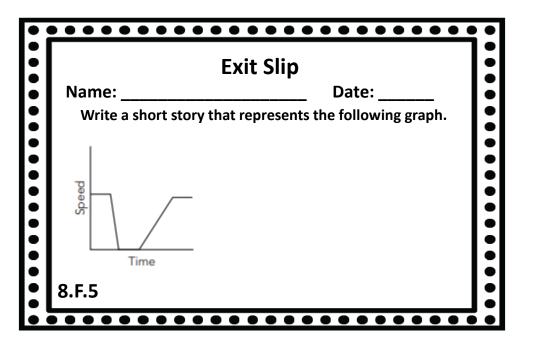


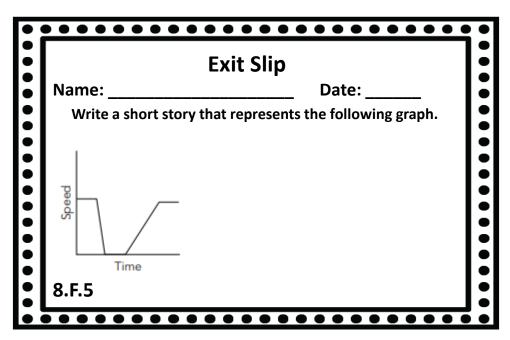
Exit Slip Name: ______ Date: ____ Erica spent the night at her friends house. That evening she realized she forgot her toothbrush and drove back to her house to get it and then back to her friends house to stay the night. Sketch a graph of her distance from home of the following situation. 8.F.5

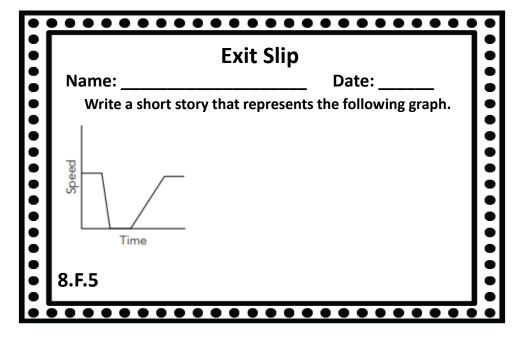
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she realized she forgo her house to get it an stay the night. Sketch	at her friends house. That evening of her toothbrush and drove back to he then back to her friends house to a graph of her distance from home following situation.
8.F.5	

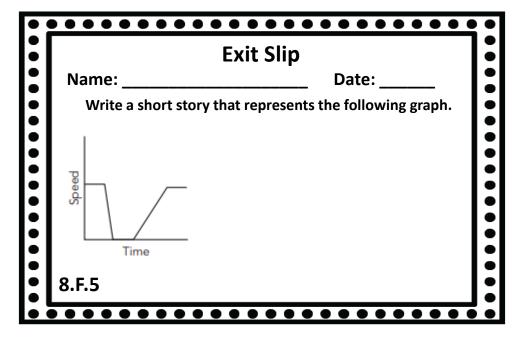
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••••••••	Name: Date: Erica spent the night at her friends house. That evening she realized she forgot her toothbrush and drove back to her house to get it and then back to her friends house to stay the night. Sketch a graph of her distance from home of the following situation.	••••••••
	8.F.5	•

•		•
	Exit Slip	:
	Name: Date:	1:
••••••	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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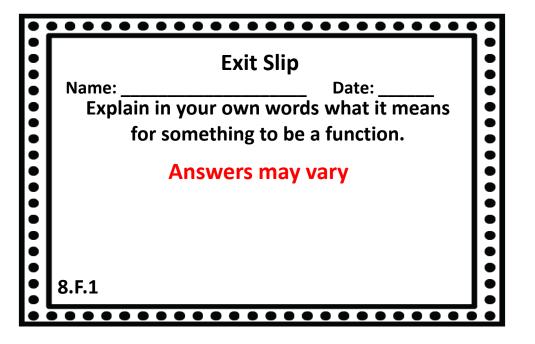


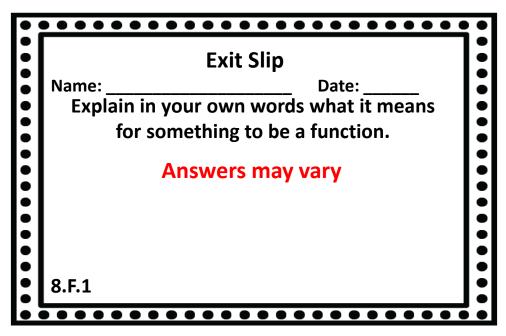






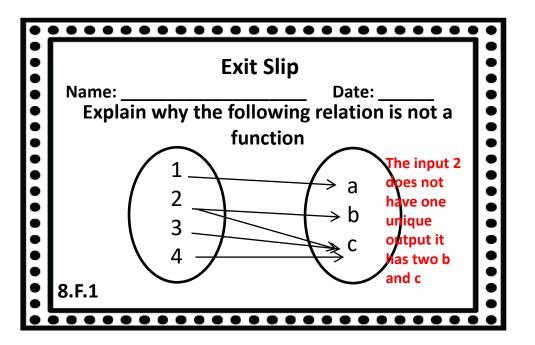
Answer Keys

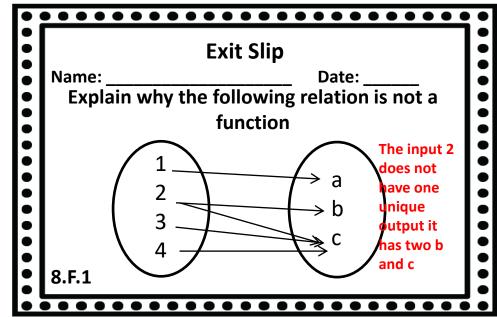


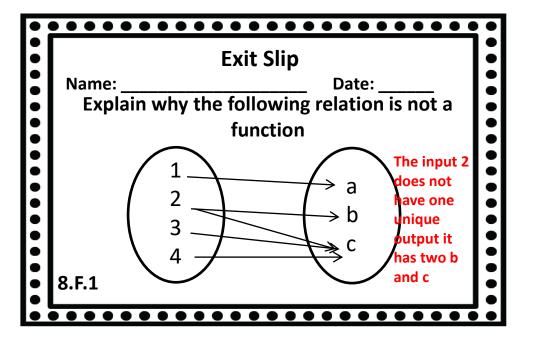


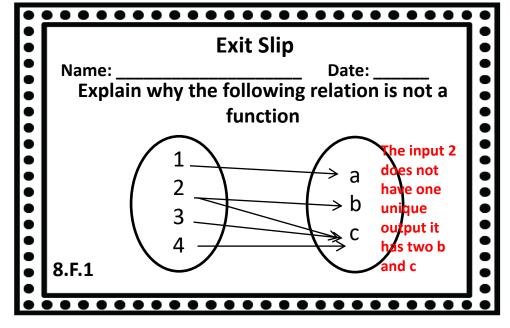
	Exit Slip	
• • • •	Name: Date: Explain in your own words what it means	
	for something to be a function.	
	Answers may vary	
	8.F.1	•

	Exit Slip
	Date: ur own words what it means ething to be a function.
Ar	swers may vary
8.F.1	
6.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.

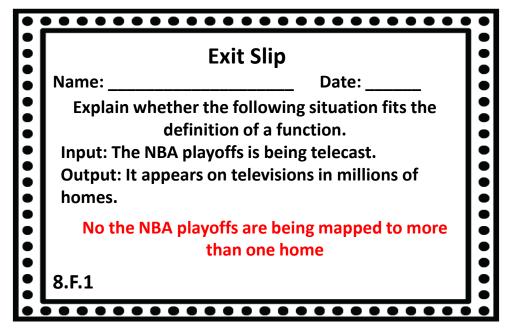
b. 0, 10, 20, 30, 40, ...

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	
	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	
Name:	Date:	•
	following sequences represent a . Explain why or why not	•
a. 3, 6, 9, 12, 1	5,	
•	tion because each input, term ce, has one output, the term.	
b. 0, 10 , 20, 30	, 40,	•
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



•	E 'l ol'	
	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	•
•		

•	• • • • • • • • • • • • • • • • • • • •	•
•	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	•
-		

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 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

E	xit Slip
Name:	Date:
•	e following situation fits the on of a function.
Input: The baseball to	eam has numbered uniforms
Output: Each player value assigned number.	wears a uniform with his
• •	ears one uniform with one cific number.
8.F.1	

	Exit Slip
Name:	Date:
•	er the following situation fits the finition of a function.
Input: The basek	pall team has numbered uniforms.
Output: Each pla assigned numbe	ayer wears a uniform with his er.
Yes each play	er wears one uniform with one specific number.
8.F.1	

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

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

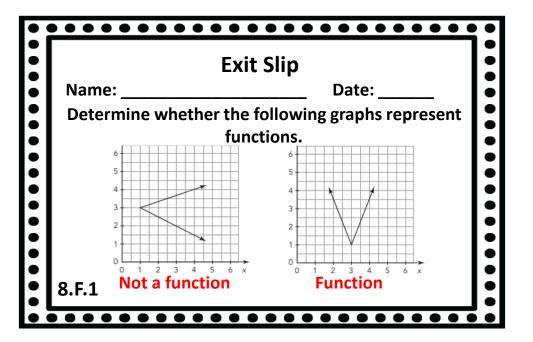
b. {(1, 4), (1, 5), (1, 6), (1, 7)}

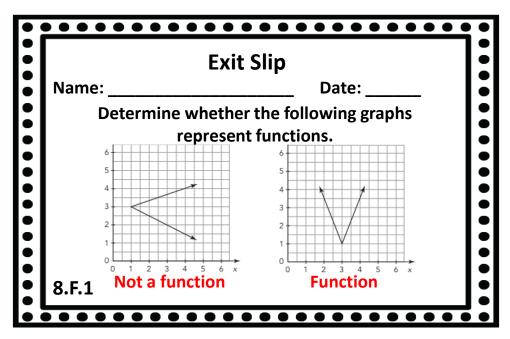
No, the input 1 does not have one unique output

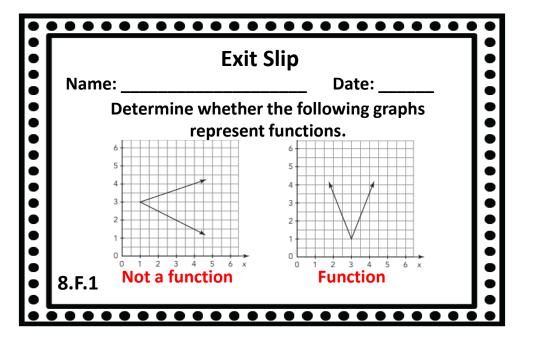
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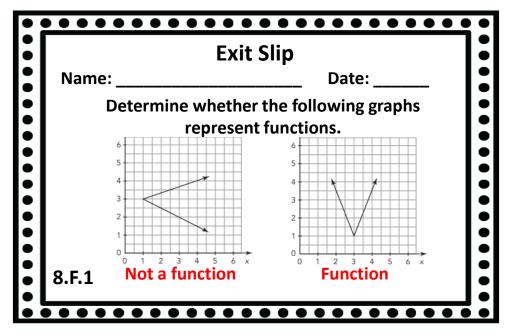
	· · · · · · · · · · · · · · · · · · ·				
	Exit Slip				
Nam	ne: Date:				
D	etermine whether the following relations are functions.				
a.	{(3, 4), (4, 7), (5, 12), (6, 12)}				
	Yes, each input has one unique output				
b.	{(1, 4), (1, 5), (1, 6), (1, 7)}				
	No, the input 1 does not have one unique				
8.F.1	output				

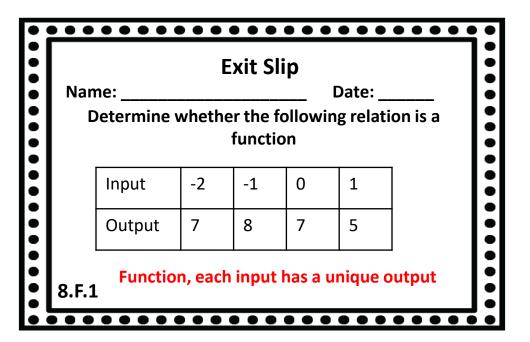
	Exit Slip
Nam	e: Date:
D ₀	etermine whether the following relations are functions. {(3, 4), (4, 7), (5, 12), (6, 12)}
	Yes, each input has one unique output
b.	{(1, 4), (1, 5), (1, 6), (1, 7)}
	No, the input 1 does not have one unique
8.F.1	output











Name:		Exi	t Slip	_ Da	nte:	
Det	ermine wh		the fol	_	relation	is a
	Input	-2	-1	0	1	
	Output	7	8	7	5	

		Ex	cit Sli)			
Name De		Date: rmine whether the following relation is a function					
	Input	-2	-1	0	1		
	Output	7	8	7	5		
8.F.1	Function	, each	input h	as a ui	nique o	utput	

	Exit Slip						
Name	:			_ Da	ite:		
De	Determine whether the following relation is a function						
	Input	-2	-1	0	1		
	Output	7	8	7	5		
8.F.1	Function,	each ir	put ha	s a uni	que out	put	

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

••••••

Name: _____ Date: ____

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$$y = x^2$$
 Function

8.F.1

8.F.1

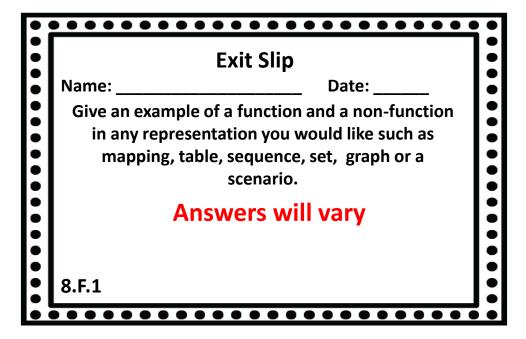
Exit Slip Name: _____ Date: ____ Determine if the following equations represent functions a. y = 2x + 1 Function b. x = 4 Not a function

b. x = 4 Not a function c. $y = x^2$ Function 8.F.1

	00000					
	Exit Slip					
Nan	ne:	Date:				
D	etermine if the	following equations represent functions				
а.	y=2x+1	Function				
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C.	$y = x^2$	Function				

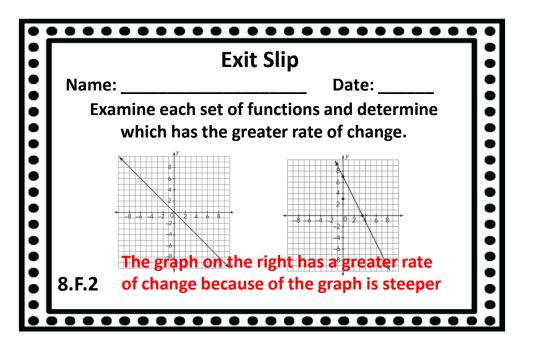
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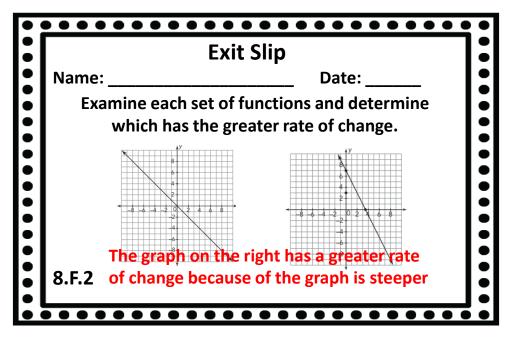
Exit Slip Name: _____ Date: ____ Give an example of a function and a non-function in any representation you would like such as mapping, table, sequence, set, graph or a scenario. Answers will vary 8.F.1

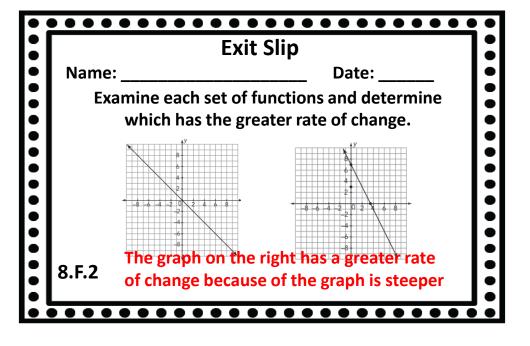


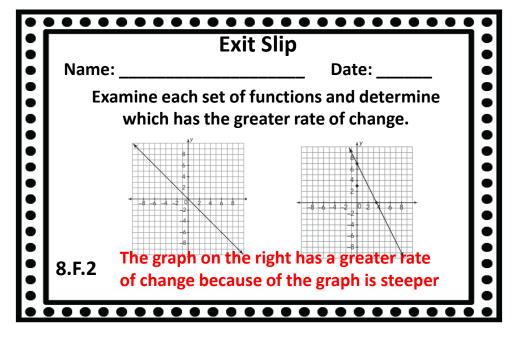
• •	Exit Slip	
	Name: Date:	
•••••	Give an example of a function and a non-function in any representation you would like such as mapping, table, sequence, set, graph or a scenario.	• • • •
• • • •	Answers will vary	• • •
	8.F.1	

•		
•	Exit Slip	
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•	Answers will vary	• • • •
•	8.F.1	•
• (









•••••••

Name:

Date:

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

a.
$$y = 2x + 3$$

Function A has a greater rate of change

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

8.F.2

Exit Slip

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Exit Slip

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Date:

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Name: _____ Date: ____

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

a.
$$4x + y = 8$$

Function A has a greater rate of change

$$b. \quad 3x + 6y = 12$$

8.F.2

Exit Slip

••••••

Name: _____ Date: ____

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8.F.2

Exit Slip

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•••••••

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Exit Slip

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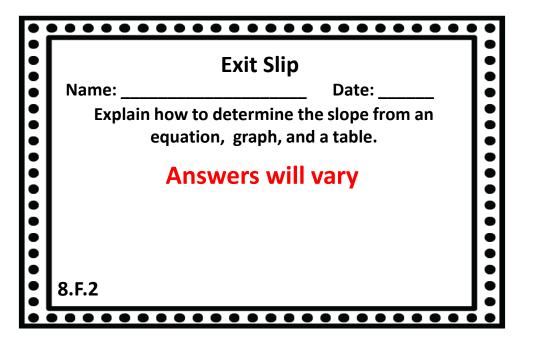
b.
$$3x + 6y = 12$$

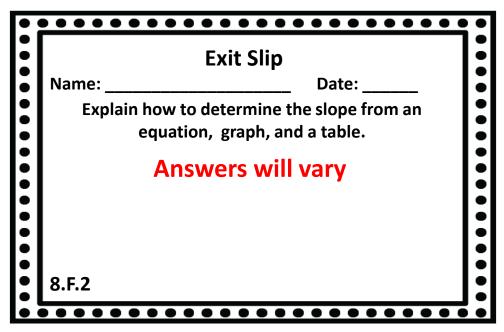
	Exit Slip						
••••••	Name: Harry is conpanies shown. Whic	Both com h compan after 2	pany's y has a ! mont	– fferent s mont a lowe	hly cost r month	ts are nly cost t after 2	
•	Company B:	Months	1	2	3		
•	8.F.2	Cost	50	80	110		

	Exit Slip					
Name:			Da	te:		
companies shown. Which	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 Company A: $y = 10x + 40$ months					
Company B:	Months	1	2	3		
8.F.2	Cost	50	80	110		

•		• • • •	• •	• • •				
•		Exit Slip						
•	Name:			_ D	ate:		ı	
•••••	companies	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 Company A: $v = 10x + 40$ months						
	Company B:	Months 1 2 2						
•	8.F.2	Cost	50	80	110			
	• • • • • •	• • • •	• •	• • •	• • •		<u> </u>	

	Exit Slip						
Name:			Da	te:			
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Company B:	Months	1	2	3			
8.F.2	Cost	50	80	110			
	• • • •	• • •	• • •	• • •	• • • •		





	• • • • • • • • • • • • • • • • • • • •	
	Exit Slip	
	Name: Date:	
•••••	Explain how to determine the slope from an equation, graph, and a table.	•
•	Answers will vary	•
		•
•	0.53	•
	8.F.2	

•••••	<u> </u>	
	Exit Slip	•
Name:	Date:	
\ 	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	j:
:1	Name: Date:	1:
	In your own words explain how to tell which function has a greater rate of change.	
	Answers will vary	
	8.F.2	
	••••••	┪:

Exit Slip

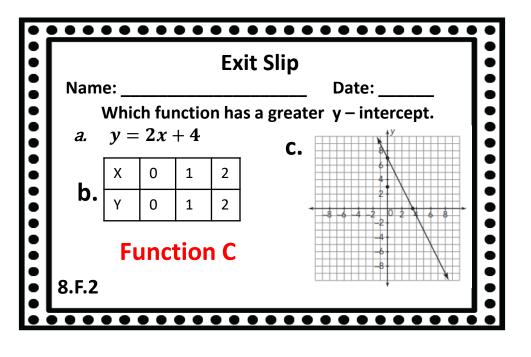
Name: _____ Date: ____

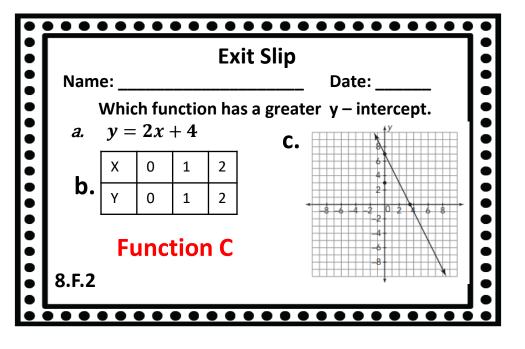
Which function has a greater y – intercept.

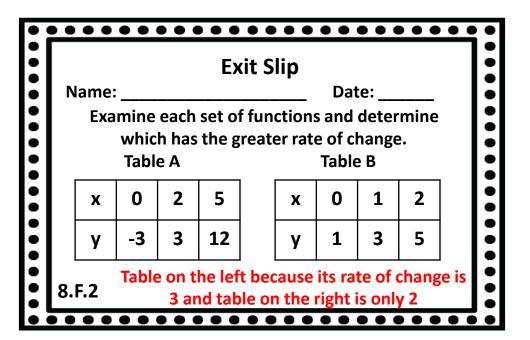
a. y = 2x + 4b. x 0 1 2 y 0 1 2
Function C

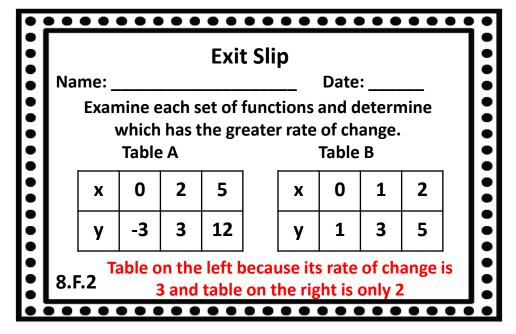
8.F.2

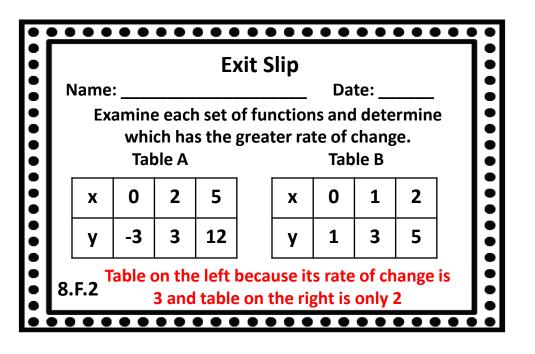
				E	it Slip		
Name:					Date:		
	Whi	ich fu	ıncti	on h	s a greate	r y – intercept.	
<i>a.</i>	y =	= 2 <i>x</i>	+4		c.	, y	
	Х	0	1	2		4	
b.	Υ	0	1	2	•	8 6 4 2 0 2 6 8	
8.F.2		Fur	icti	on		4 6 8 8	

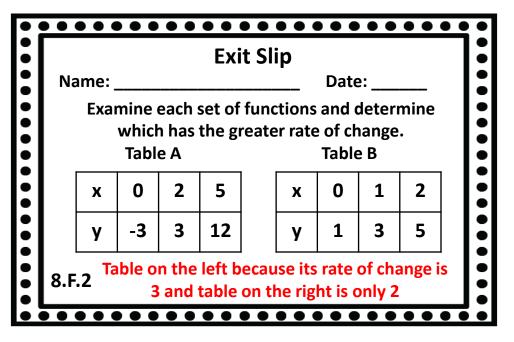


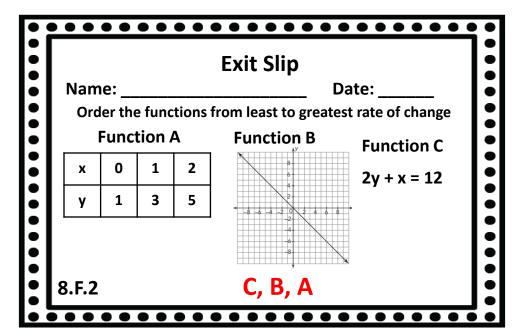


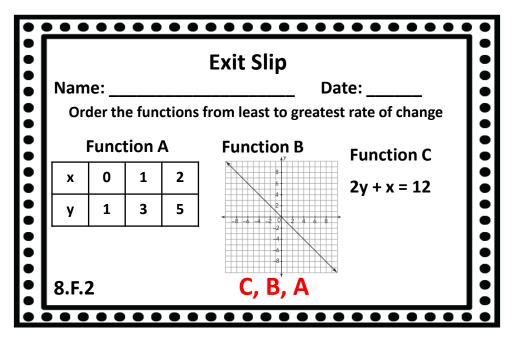


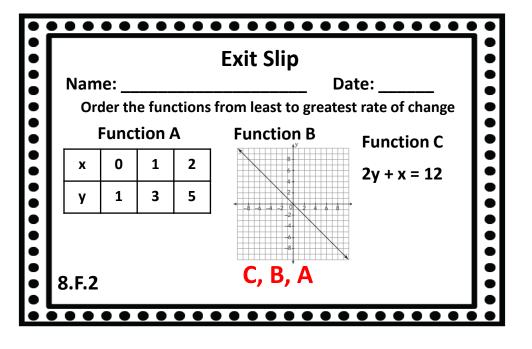


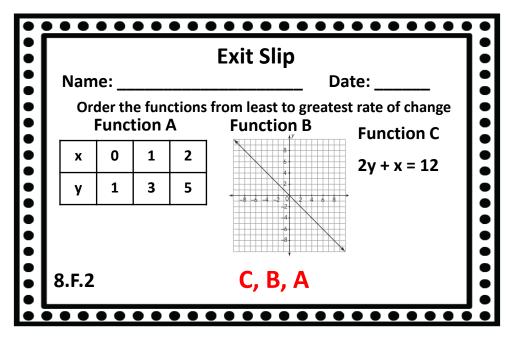


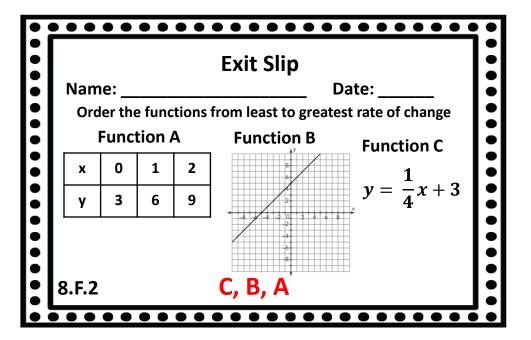


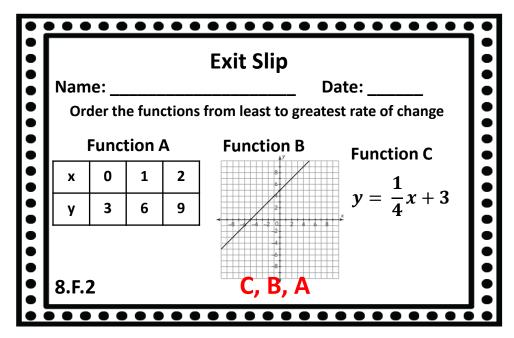




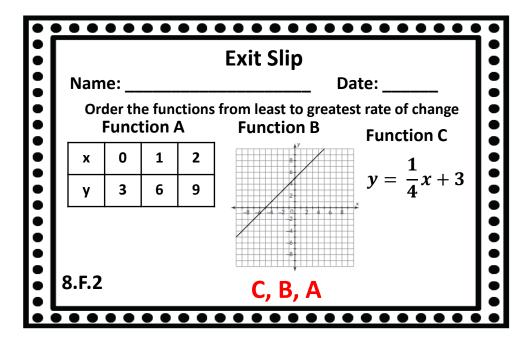








Nam				Exit Slip Date: s from least to greatest rate of change		
Function A				Function B	Function C	
х	0	1	2	8-	1	
У	3	6	9	2	$y = \frac{1}{4}x + 3$	
8.F.2				C, B, A		



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: ____

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

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Exit Slip

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8.F.3

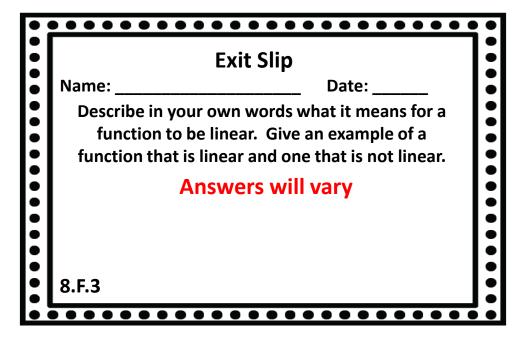
Exit Slip

Name: _____ Date: ____

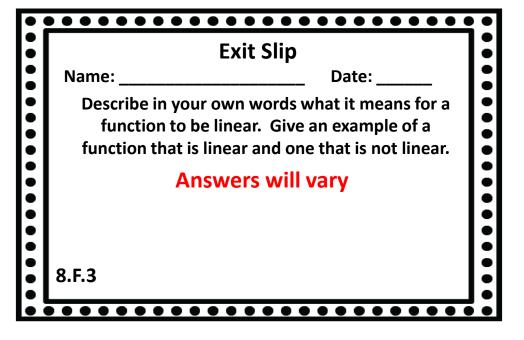
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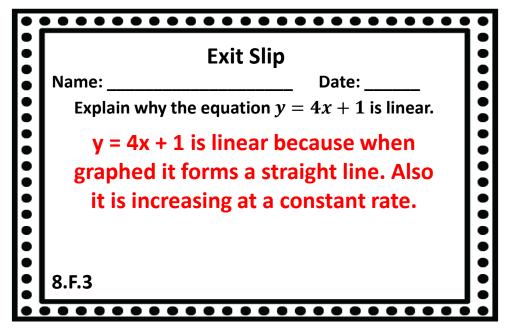
Exit Slip Name: ______ Date: _____ Describe in your own words what it means for a function to be linear. Give an example of a function that is linear and one that is not linear. Answers will vary 8.F.3



•	• • • • • • • • • • • • • • • • • • • •			
•	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			
•	• • • • • • • • • • • • • • • • • • • •	•		



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:	
•	Explain why the equation $oldsymbol{y} = oldsymbol{4} x + oldsymbol{1}$ is linear.	•
	y = 4x + 1 is linear because when	
•	graphed it forms a straight line. Also	
•	it is increasing at a constant rate.	
	it is increasing at a constant rate.	
•		•
	8.F.3	

Exi	t Slip
Name:	Date:
Explain why the equa	ation $y = 4x + 1$ is linear.
y = 4x + 1 is lin	ear because when
graphed it forms	s a straight line. Also
it is increasing	at a constant rate.
Ĭ	
8.F.3	
0.1.5	

....................

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

••••••

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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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 + b8.F.3

	••••
Exi	t Slip
Name:	Date:
Write the equation of a linear function with slope m, initial value b, independent quantity x, and dependent quantity y.	
y = 1	mx + b
8.F.3	

	í
Exit Slip	ľ
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	
	Name: Date: Write the equation of a linear function with slope m, initial value b, independent quantity x, and dependent quantity y. $y = mx + b$

Exit Slip		
Date:		
Write the equation of a linear function with slope m, initial value b, independent quantity x, and dependent quantity y.		
y = mx + b		

Exit Slip Name: ______ Date: _____ Determine whether the following statements are true or false. True In 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	e following statements are true or	
false. True 1. A function whose graph is linear is a curved		
line.	whose graph is inlear is a curveu	
False 2. Some linear functions are proportional and		
others are not.	- canada a a proportional and	
F <u>alse</u> 3. Every line is	s 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:
	the following statements are true or false. on whose graph is linear is a curved
_	near functions are proportional and
False 3. Every lin	ne is a linear function.

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.
	both values of a function increase together, the increasing function.
	the value of a dependent variable decreases as ependent variable increases the function is decreasing function.
8.F.3	

•••	•••••				
	Exit Slip				
N	ame: Date:				
	Fill in the blanks with increasing, decreasing or constant.				
	 When both values of a function increase together, the function is called an <u>increasing</u> function. 				
2	 When the value of a dependent variable decreases as the independent variable increases the function is called a decreasing function. 				
8.1	F.3				
• • •					

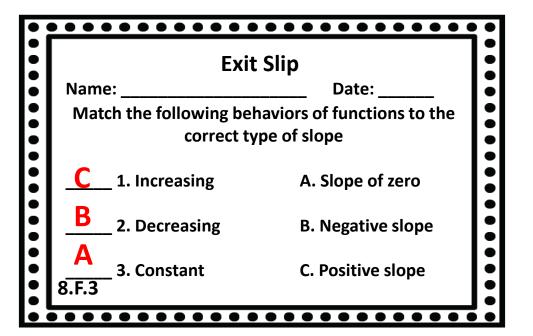
	Exit Slip	
Name:		Date:
Fill in the blan	ks with increasing, decre	asing or constant.
	values of a function increasing	
the indepen	alue of a dependent vari ndent variable increases t creasing function.	
8.F.3		

Exit	•
Name:	Date:
Write an equation that	shows the slope is $\frac{3}{4}$ and
the y inte	rcept is -2.
$v = \frac{3}{2}$	-x-2
³ 4	_
8.F.3	
	Write an equation that

	Exit Slip	
•	Name: Date:	
•	Write an equation that shows the slope is $\frac{3}{4}$ and	
•	the y intercept is -2	1
•	$y=\frac{3}{4}x-2$	
•	T	
•		
	8.F.3	
•		

•	• • • • • • • • • • • • • • • • • • • •	•	
	Exit Slip		
	Name: Date:	:	
	Write an equation that shows the slope is $\frac{3}{4}$ and	:	
	the y intercept is -2	•	
	3	•	
	$y=\frac{3}{4}x-2$:	
		:	
•		•	
•	8.F.3	•	

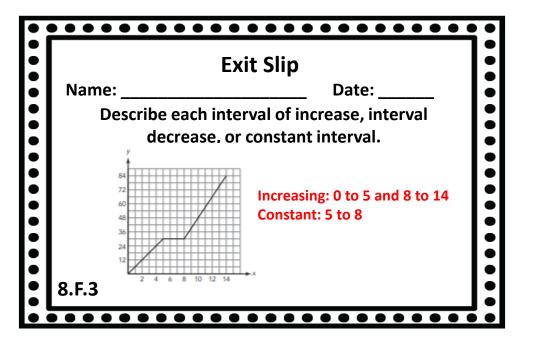
	Exit Slip
Name:	Date:
Write an equation	n that shows the slope is $\frac{3}{4}$ and
	e y intercept is -2
3	$y=\frac{3}{4}x-2$
8.F.3	

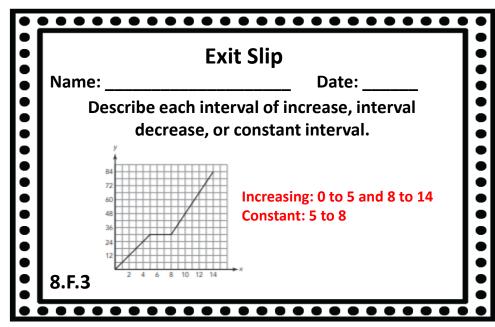


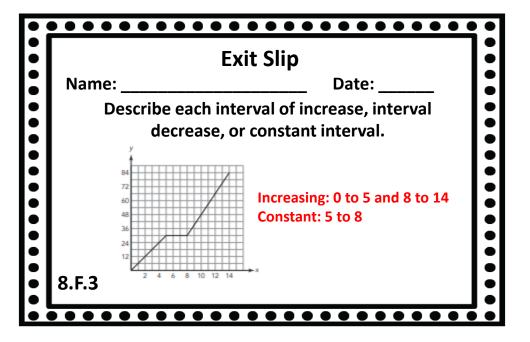
		į		
Exit S	Exit Slip			
Name: Date:				
Match the following behaviors of functions to the correct type of slope				
1. Increasing	A. Slope of zero			
B 2. Decreasing	B. Negative slope			
3. Constant	C. Positive slope			

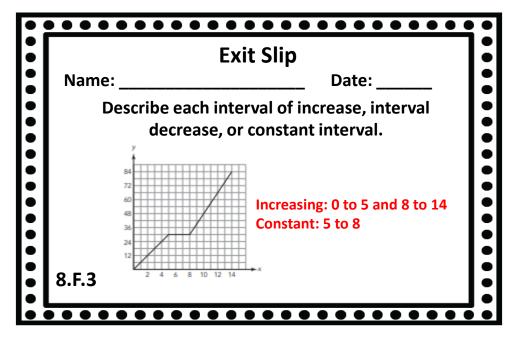
Exit Slip					
Name:	Name: Date:				
Match the following behaviors of functions to the correct type of slope					
B 2. Decreasing	B. Negative slope				
3. Constant 8.F.3	C. Positive slope				

Exit Slip						
Name: Date: Match the following behaviors of functions to the correct type of slope						
1. Increasing	1. Increasing A. Slope of zero					
B 2. Decreasing	B. Negative slope					
A 3. Constant	C. Positive slope					
8.F.3						

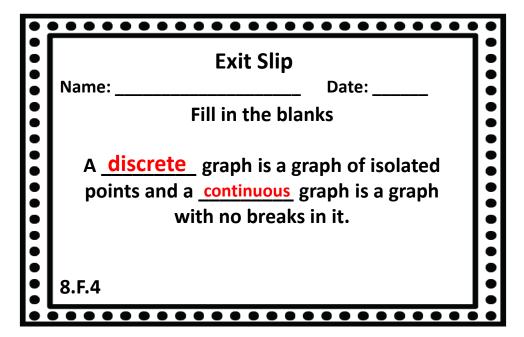








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		Exit Slip	
•	Name:	Date:	•
••••••••		Fill in the blanks	•
•	A <u>disc</u>	rete graph is a graph of isolated	•
•	points	and a <u>continuous</u> graph is a graph	
		with no breaks in it.	
•			•
•	8.F.4		•

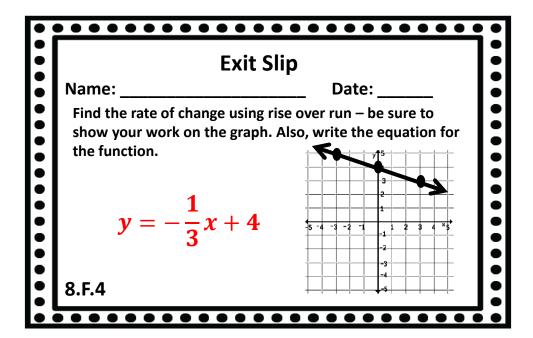


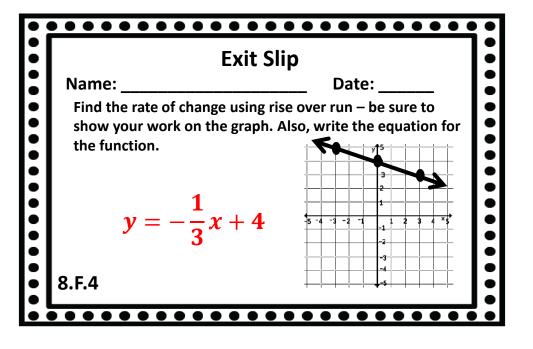
	• • • • • • • • • • • • • • • • • • • •	
•	Exit Slip	
	Name: Date:	
•	Fill in the blanks	
•••••	A <u>discrete</u> graph is a graph of isolated points and a <u>continuous</u> graph is a graph	
•	with no breaks in it.	
	8.F.4	
	• • • • • • • • • • • • • • • • • • • •	

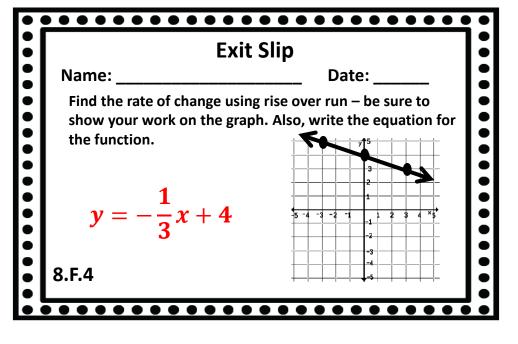
• • • • • • • • • • • • • • • • • • • •	•
Exit Slip	•
Name: Date:	:
Fill in the blanks	
A <u>discrete</u> graph is a graph of isolated points and a <u>continuous</u> graph is a graph	
with no breaks in it.	
8.F.4	
	j

Exit S	Slip
Name:	Date:
show your work on the graph. the function.	Also, write the equation for
$y=-\frac{1}{3}x+4$	3 2

••••••

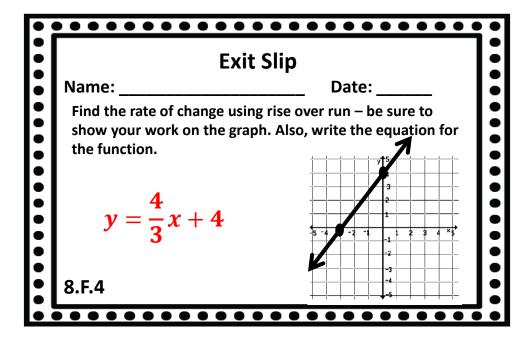


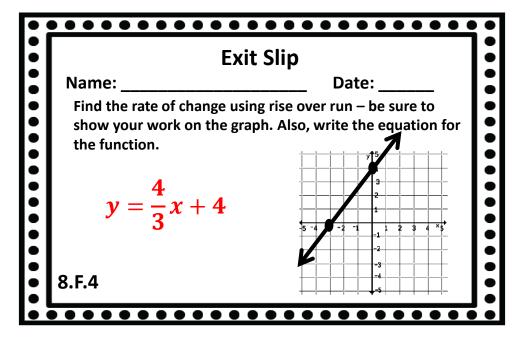


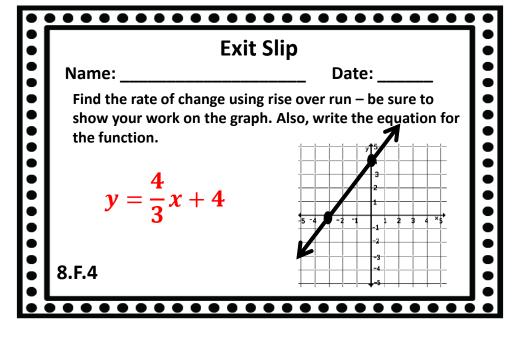


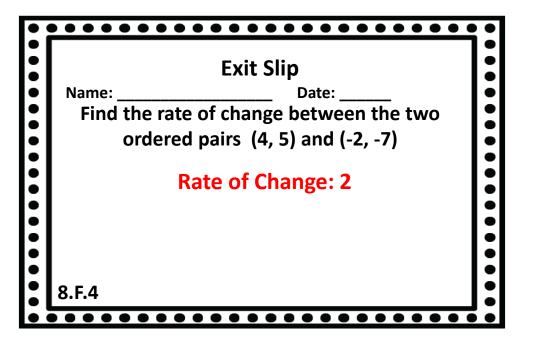
Exit Slip Name: _____ Date: ____ Find the rate of change using rise over run – be sure to show your work on the graph. Also, write the equation for the function. $y = \frac{4}{3}x + 4$

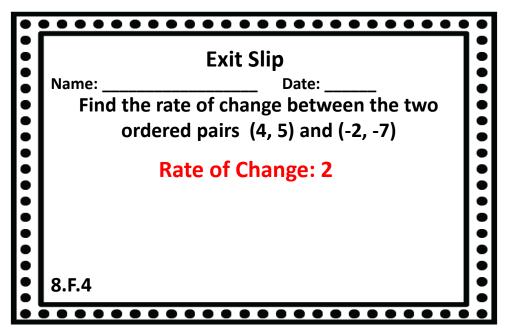
8.F.4











•	• • • • • • • • • • • • • • • • • • • •	•
	Exit Slip	
	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	•					
•	Rate of Change. 2						
		:					
	8.F.4						
•		•					

Exit Slip

Name: _____ Date: ____
What is the slope of the line 2y = 4x + 6?

Slope: 2

•							
•	Exit Slip						
	Name: Date:	•					
•	What is the slope of the line $2y = 4x + 6$?						
•	Slope: 2	•					
•	5.5ps. =	•					
		:					
•							
•		•					
•	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: ____
What are the intercepts of the equation 6x + 2y = 12? x - intercept: (2, 0) y - intercept: (0, 6)

-	
	Exit Slip
, i	me: Date:
el v	What are the intercepts of the equation $6x + 2y = 12$?
	x – intercept: (2, 0)
l	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)	•					
	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)					
y – intercept: (0, 6)					
8.F.4					

••••••

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 S	Slip
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Name: _____ Date: ____

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Second Company

8.F.4

Exit Slip

Name: _____ Date: ____

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Second Company

8.F.4

••••••

Date: ___ Name: 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.

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

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

Slope:
$$\frac{1}{4}$$

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

8.F.4

Exit Slip

Date: _____ Name:

> 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)

Exit Slip

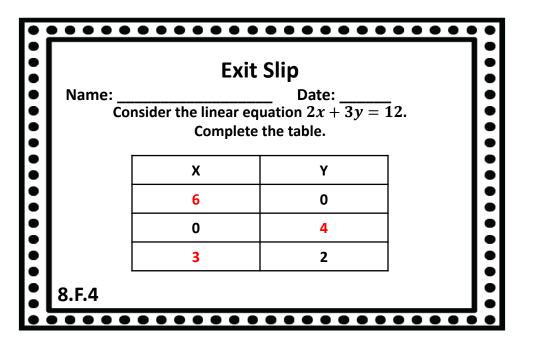
Name: ____ Date:

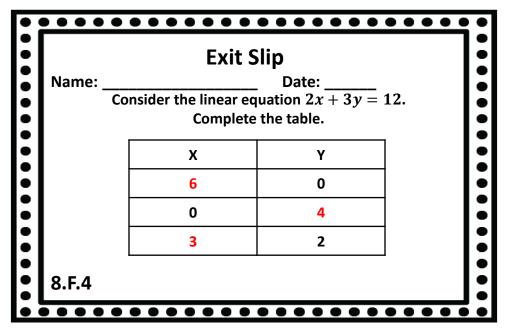
Determine the slope and y – intercept of the line represented by the following equations.

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)

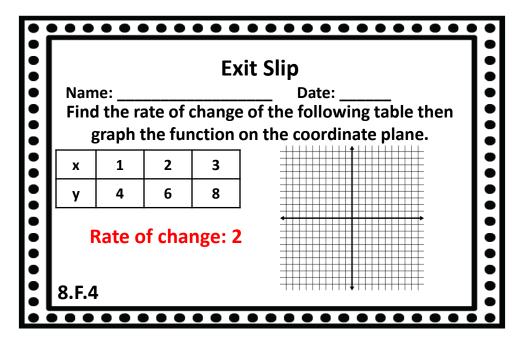
Slope:
$$\frac{1}{4}$$

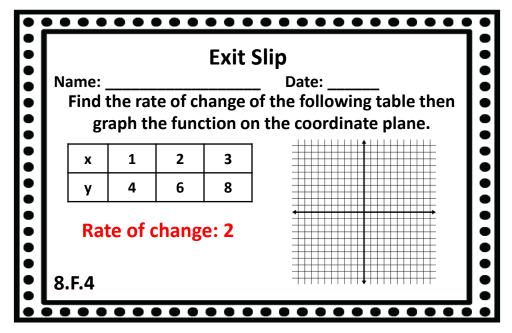




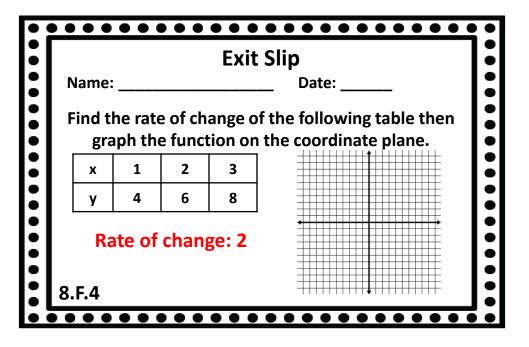
Exit Slip					
Name:		Date:			
Consider the linear equation $2x+3y=12.$ Complete the table.					
	Х	Υ			
	6	0			
	0	4			
	3	2			
		•			
8.F.4					

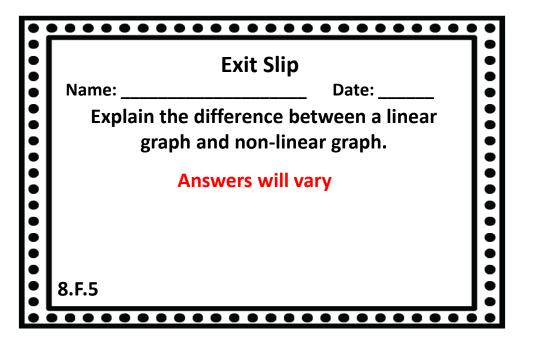
Consider the linear equation $2x + 3y = 12$. Complete the table.			
- -			

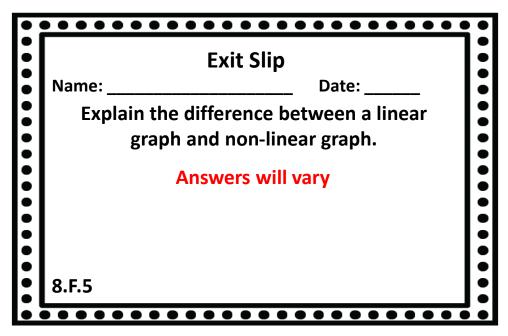




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•	• Exit Slip							
	Name	e:			Date:	•		
Find the rate of change of the following table th graph the function on the coordinate plane.						•		
:	х	1	2	3				
	у	4	6	8		:		
	Rate of change: 2							
	• • (•••	• • •	•••	• • • • • • • • • • •			

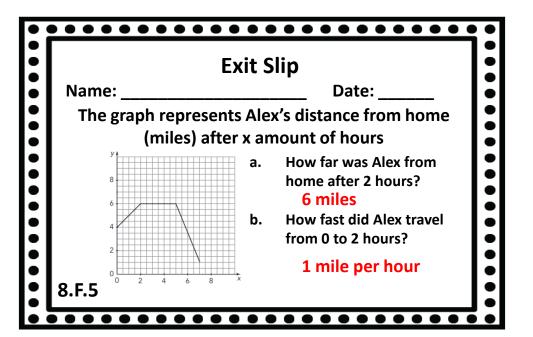


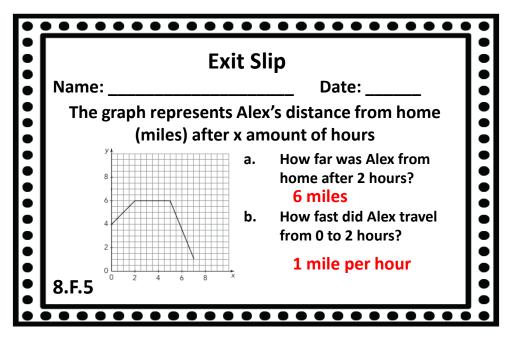


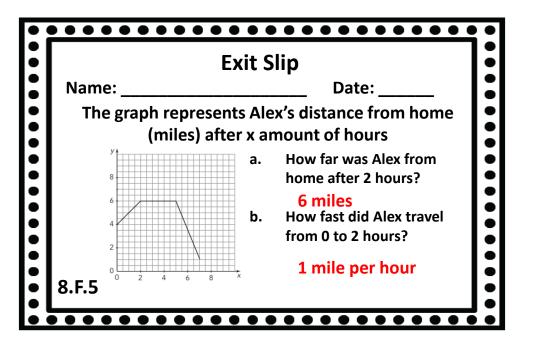


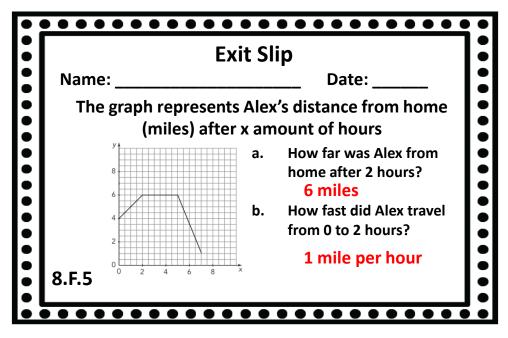
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	Exit Slip	
	Name: Date:	
•••••••	Explain the difference between a linear	•
•	graph and non-linear graph.	•
	Answers will vary	•
		•
•		•
•	8.F.5	•

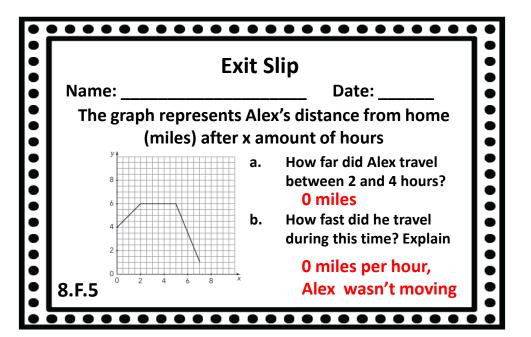
	Exit Slip
Name:	Date:
Explain ¹	the difference between a linear
gra	aph and non-linear graph.
	Answers will vary
	•
8.F.5	
8.1.5	

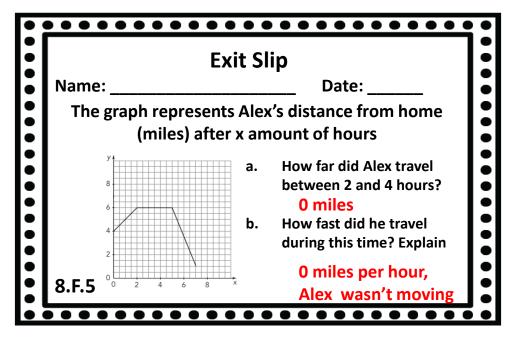


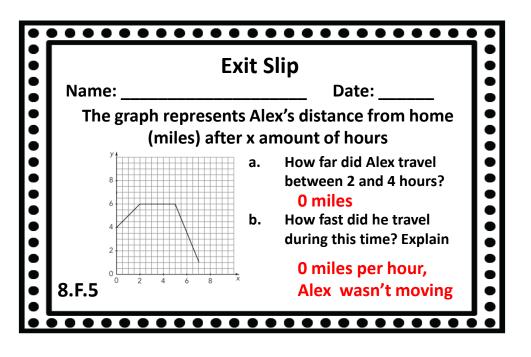


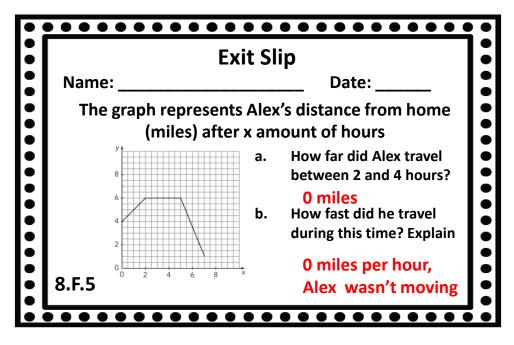


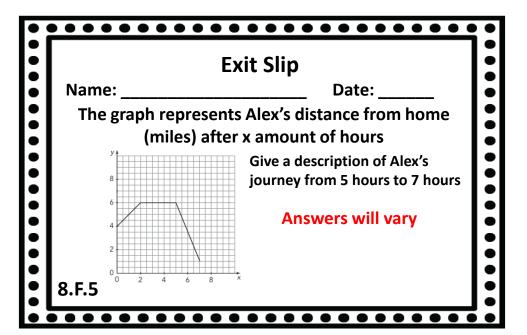


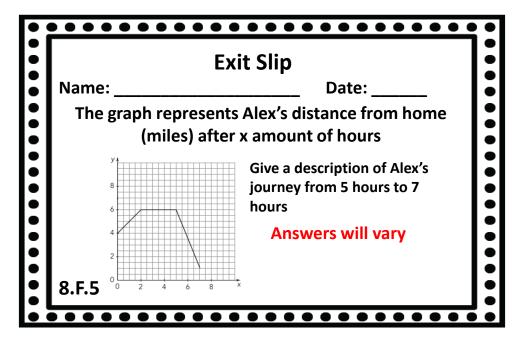


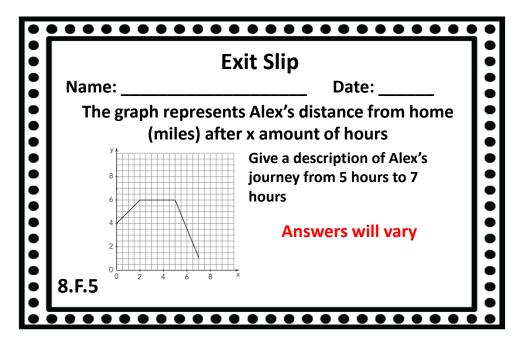


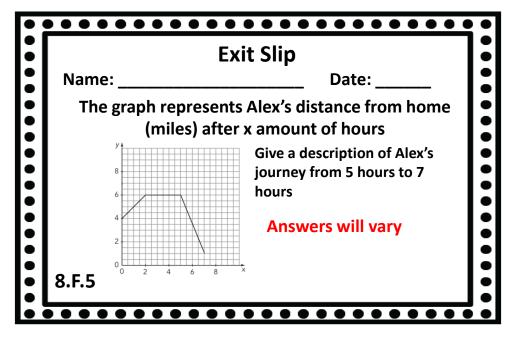


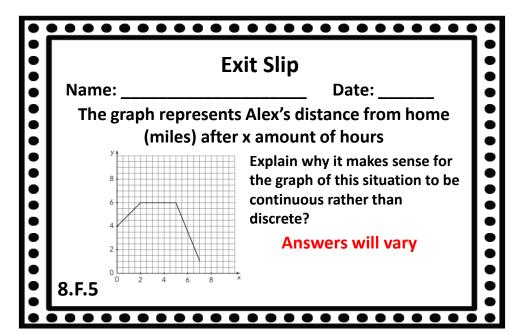


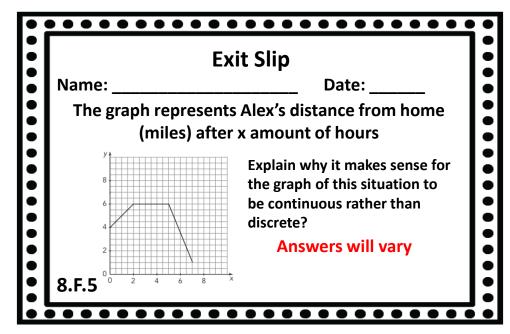


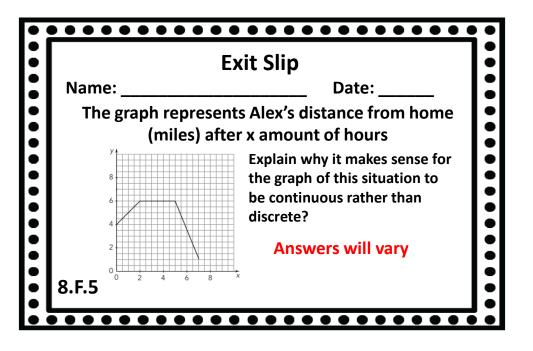


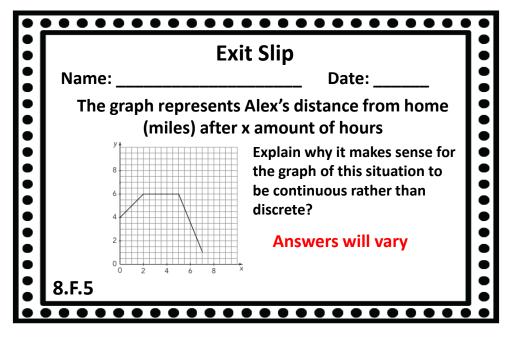


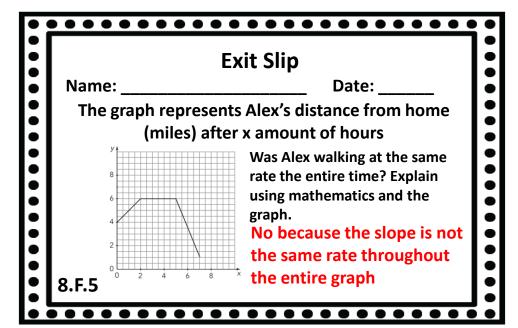


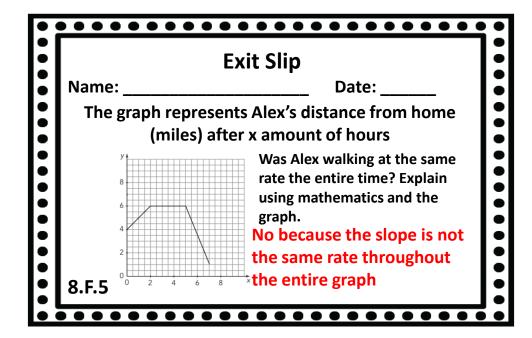


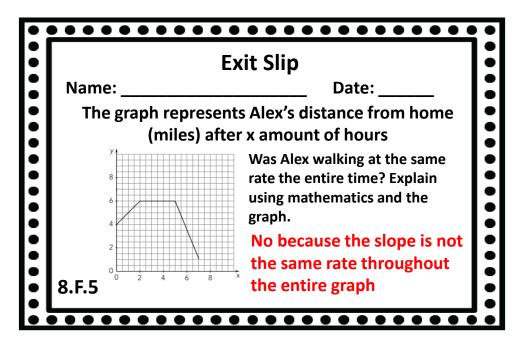


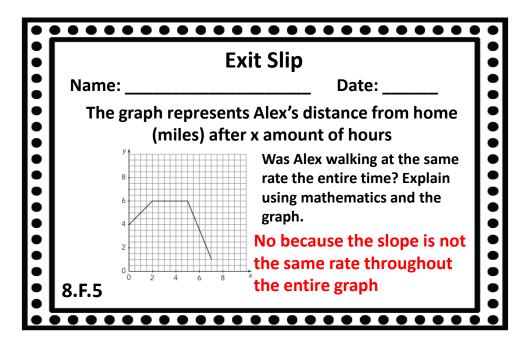


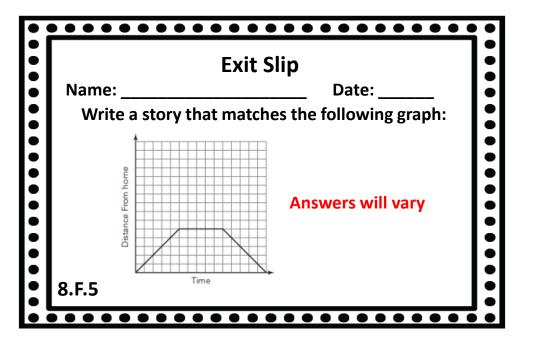


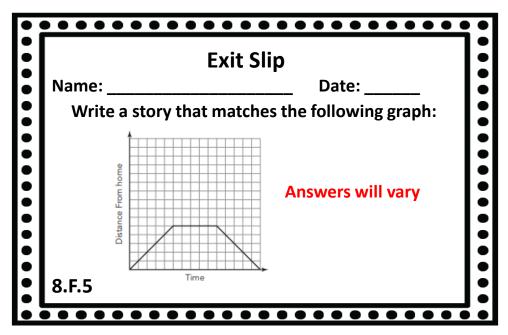


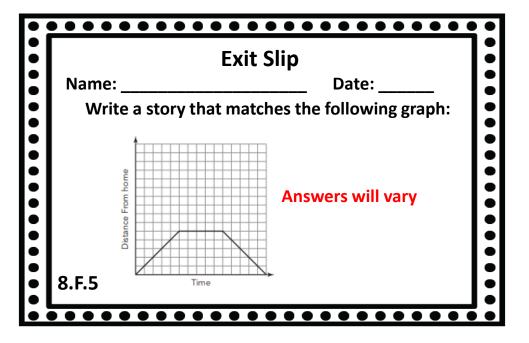


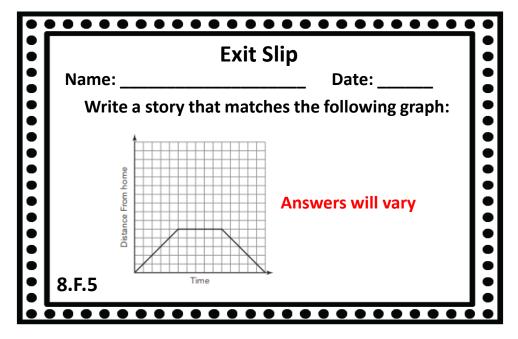


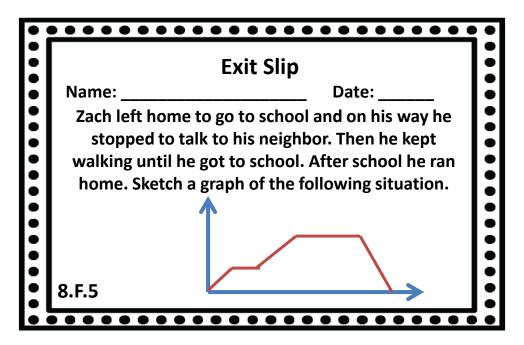


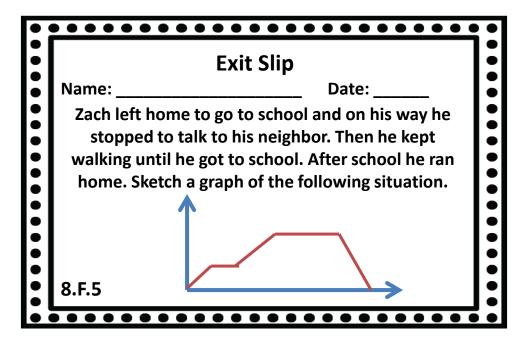


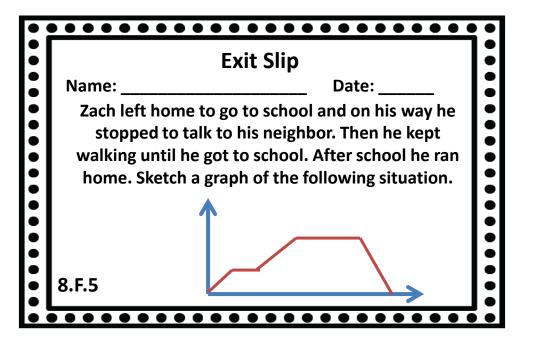


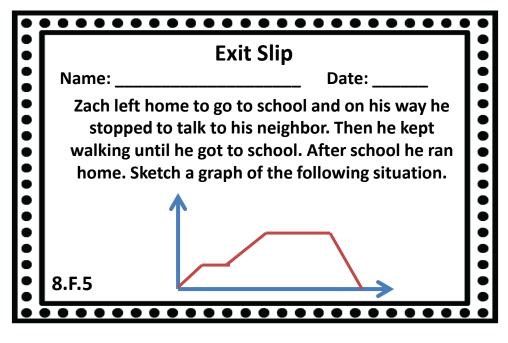


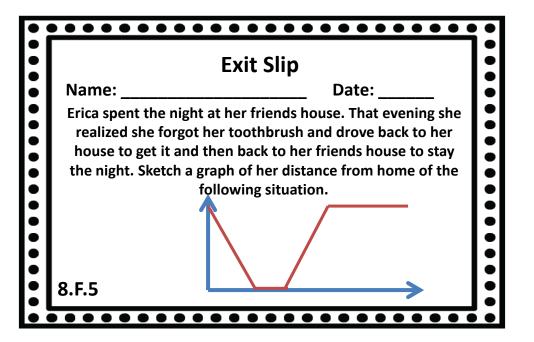


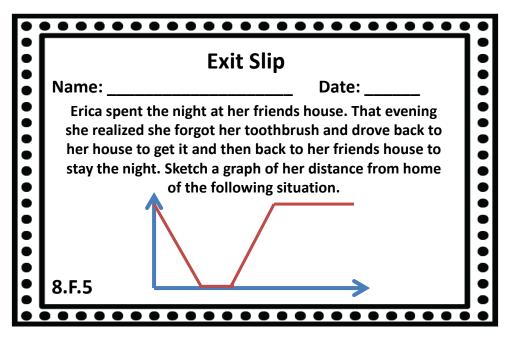


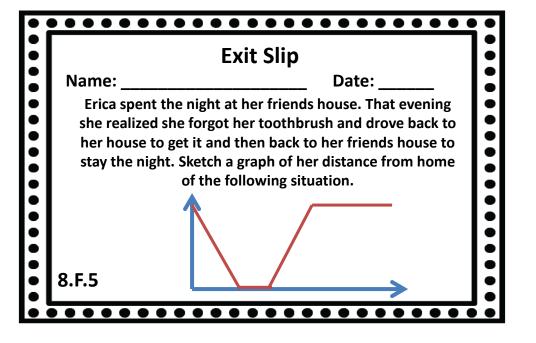


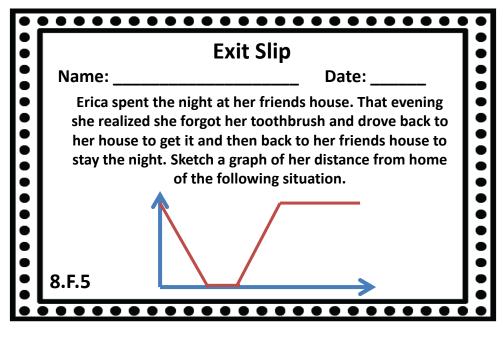


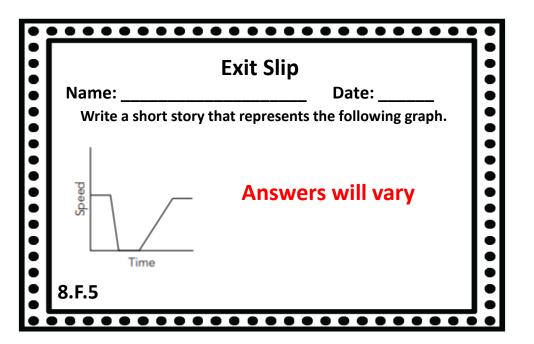


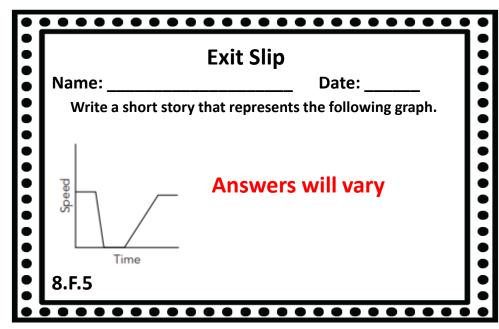


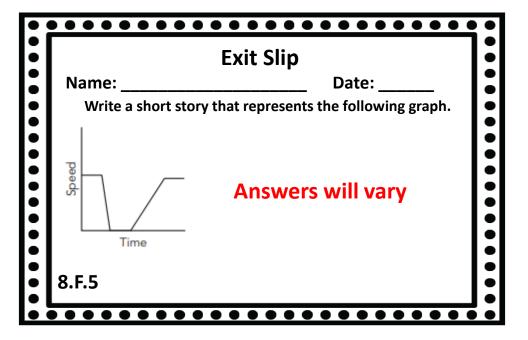


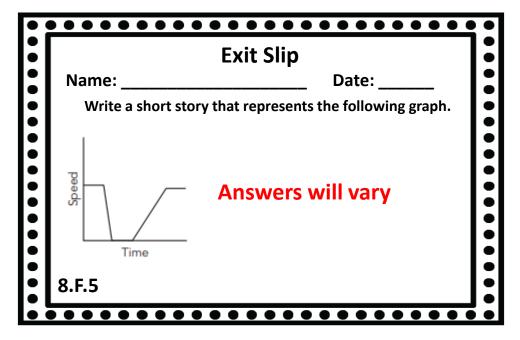












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