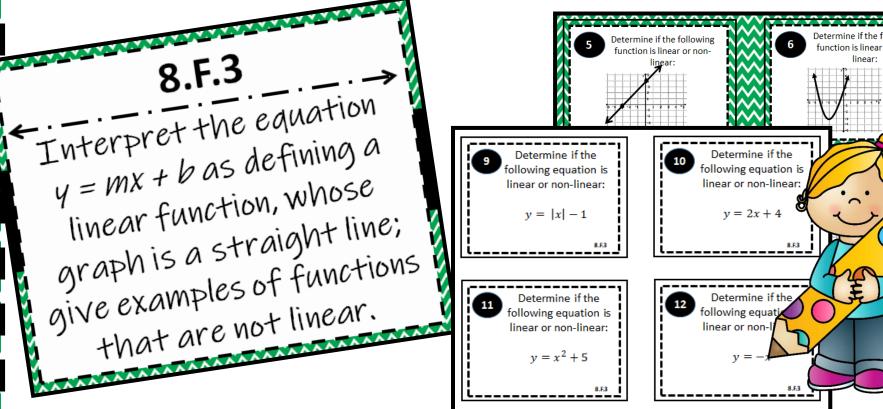
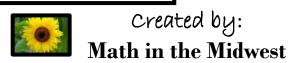
## **Functions: Task Cards 8.F.3**

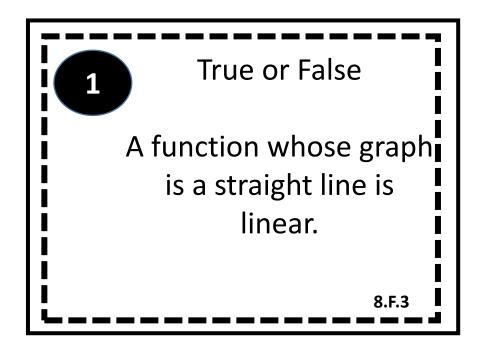
### 20 Task Cards, Recording Sheet, Answer Sheet

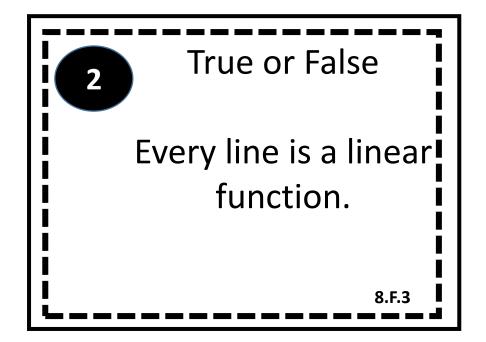


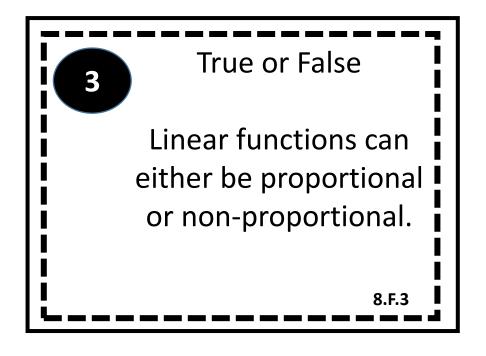


# 8.F.3

Interpret the equation y = mx + b as defining a linear function, whose graph is a straight line; give examples of functions that are not linear.

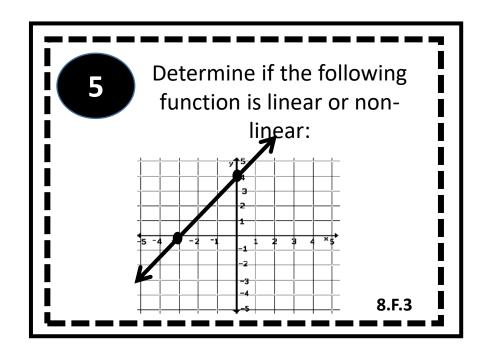


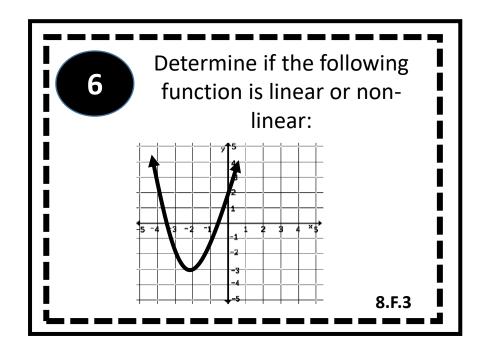


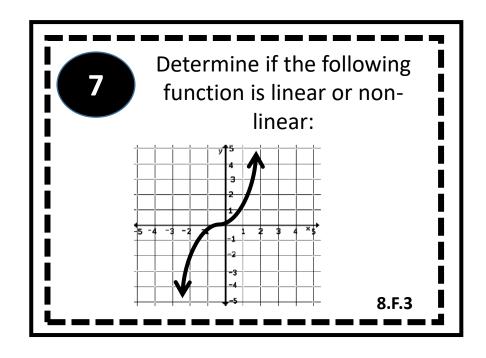


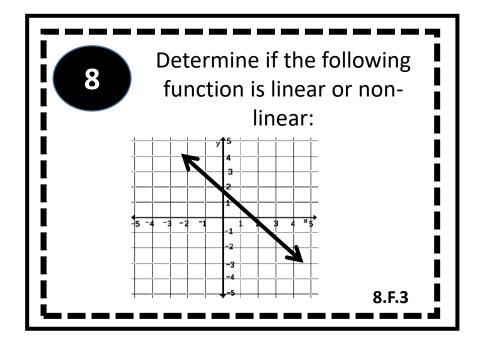
True or False

When both values of a function increase together the function is called a decreasing function. 8.F.3

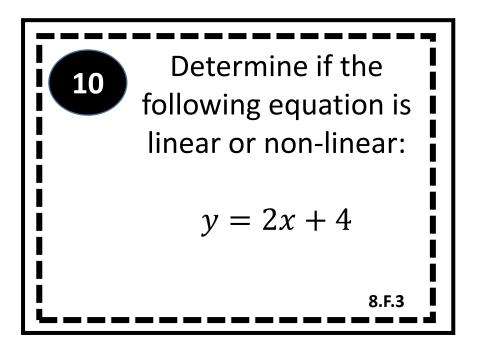


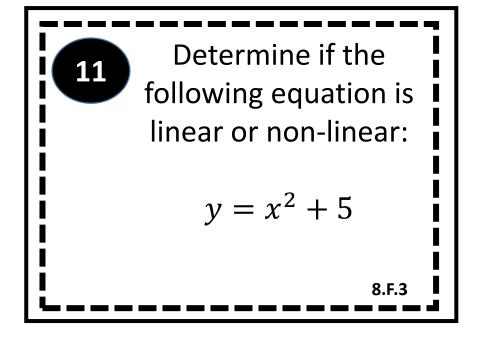






Determine if the following equation is linear or non-linear: y = |x| - 18.F.3





Determine if the following equation is linear or non-linear: y = -x8.F.3

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

8.F.3

When the value of the dependent variable decreases as the independent variable increases the function is called a

function.

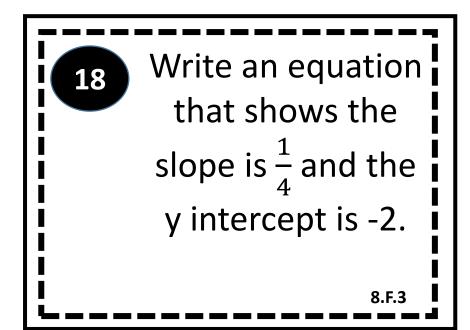
8.F.3

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

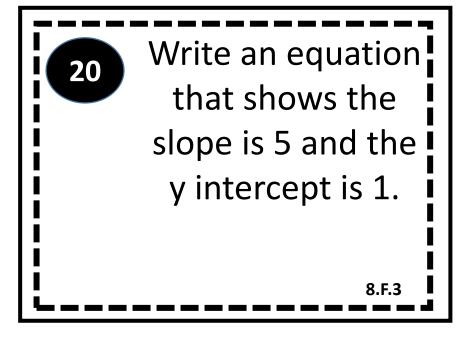
A cell phone company charges a \$20 fee every month and \$0.01 for ten minutes spent talking on the phone. Write an equation to model the cost of a monthly cell phone bill for the linear function.

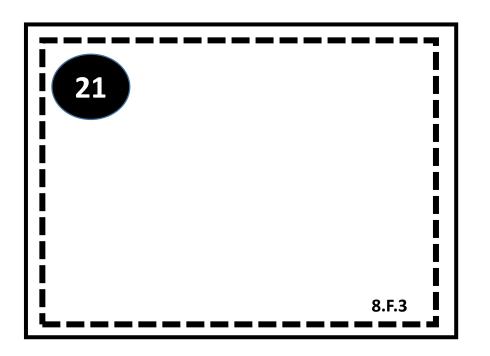
8.F.3

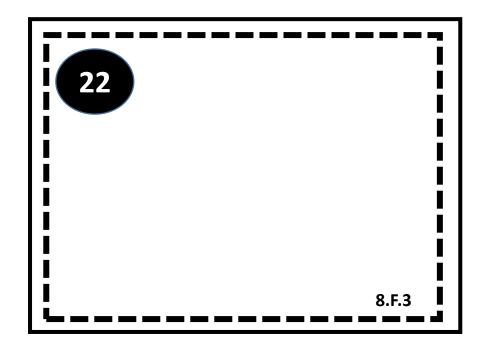
Write an equation that shows the slope is -2 and the y intercept is 3.

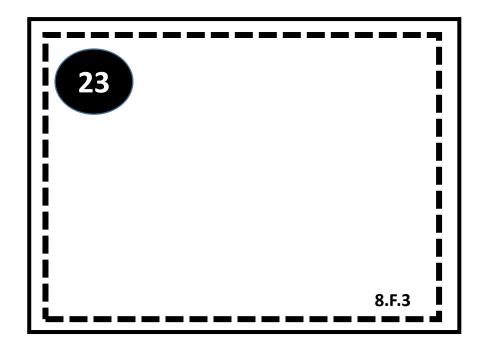


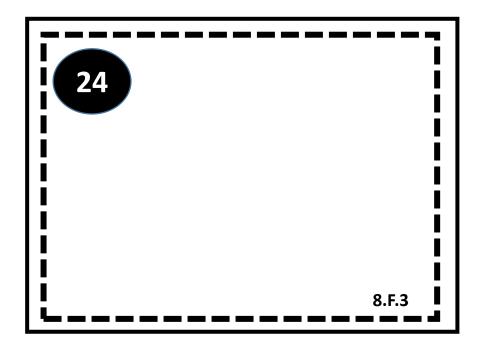
Write an equation that shows the slope is 1 and the y intercept is 0.











True or False

A function whose graph is a straight line is linear.

True or False

Every line is a line

Every line is a linear function.

8.F.3

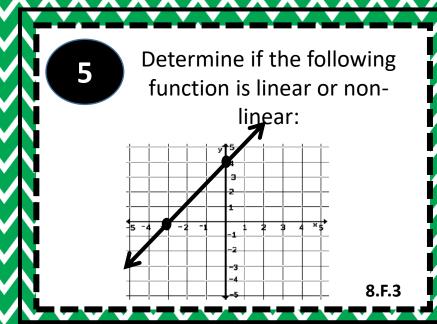
True or False

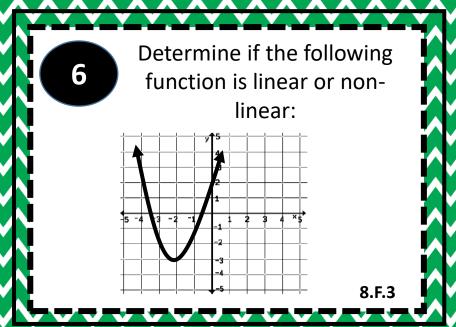
Linear functions can either be proportional or non-proportional.

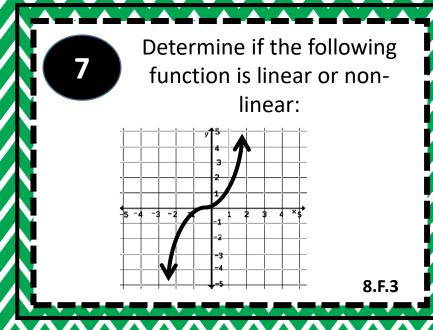
8.F.3

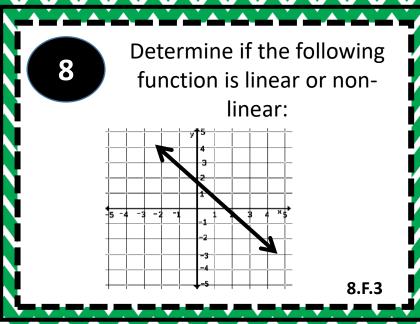
True or False

When both values of a function increase together the function is called a decreasing function. 8.F.3









$$y = |x| - 1$$

8.F.3

Determine if the following equation is linear or non-linear:

$$y = 2x + 4$$

8.F.3

$$y = x^2 + 5$$

8.F.3

Determine if the following equation is linear or non-linear:

$$y = -x$$

8.F.3

When both values of a function increase together, the function is called an

function.

8.F.3

When the value of the dependent variable decreases as the independent variable increases the function is called a

**14** 

**16** 

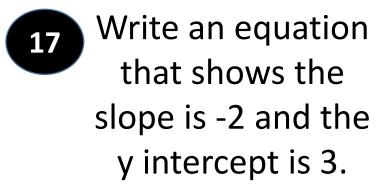
function. 8.F.3

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

8.F.3

A cell phone company charges a \$20 fee every month and \$0.01 for ten minutes spent talking on the phone. Write an equation to model the cost of a monthly cell phone bill for the linear function.

8.F.3



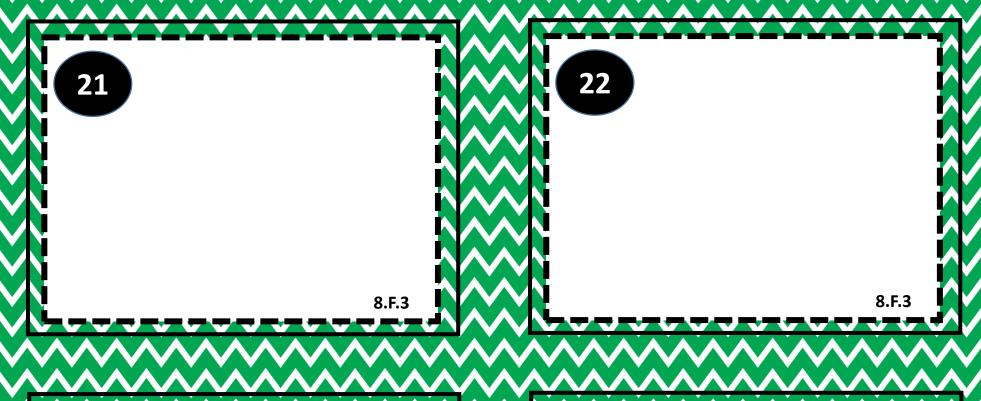
Write an equation that shows the slope is  $\frac{1}{4}$  and the y intercept is -2.

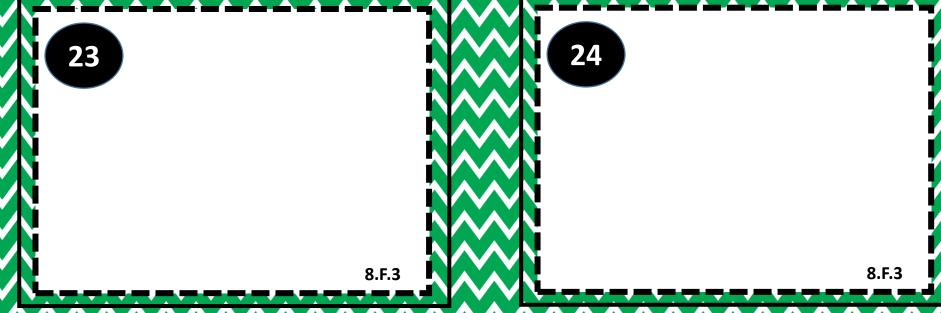
8.F.3

Write an equation that shows the slope is 1 and the y intercept is 0.

Write an equation that shows the slope is 5 and the y intercept is 1.

8.F.3





Name
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Hour \_\_\_\_\_

## 8.F.3 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	හ.	9.

10.	11.	12.
13.	14.	15.
16.	17.	18.
19.	20.	

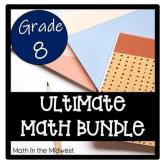
#### **Answer Key**

Number	Answer
1	True
2	False
3	True
4	False
5	Linear
6	Non-linear
7	Non-linear
8	Linear
9	Non-linear
10	Linear

Number	Answer
11	Non-linear
12	Linear
13	Increasing
14	Decreasing
15	y = mx + b
16	y=.01x+20
17	y = -2x + 3
18	$y=\frac{1}{4}x-2$
19	y = x
20	y=5x+1

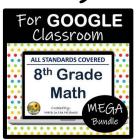
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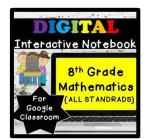




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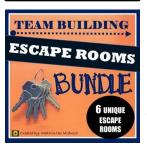




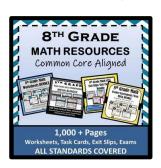








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