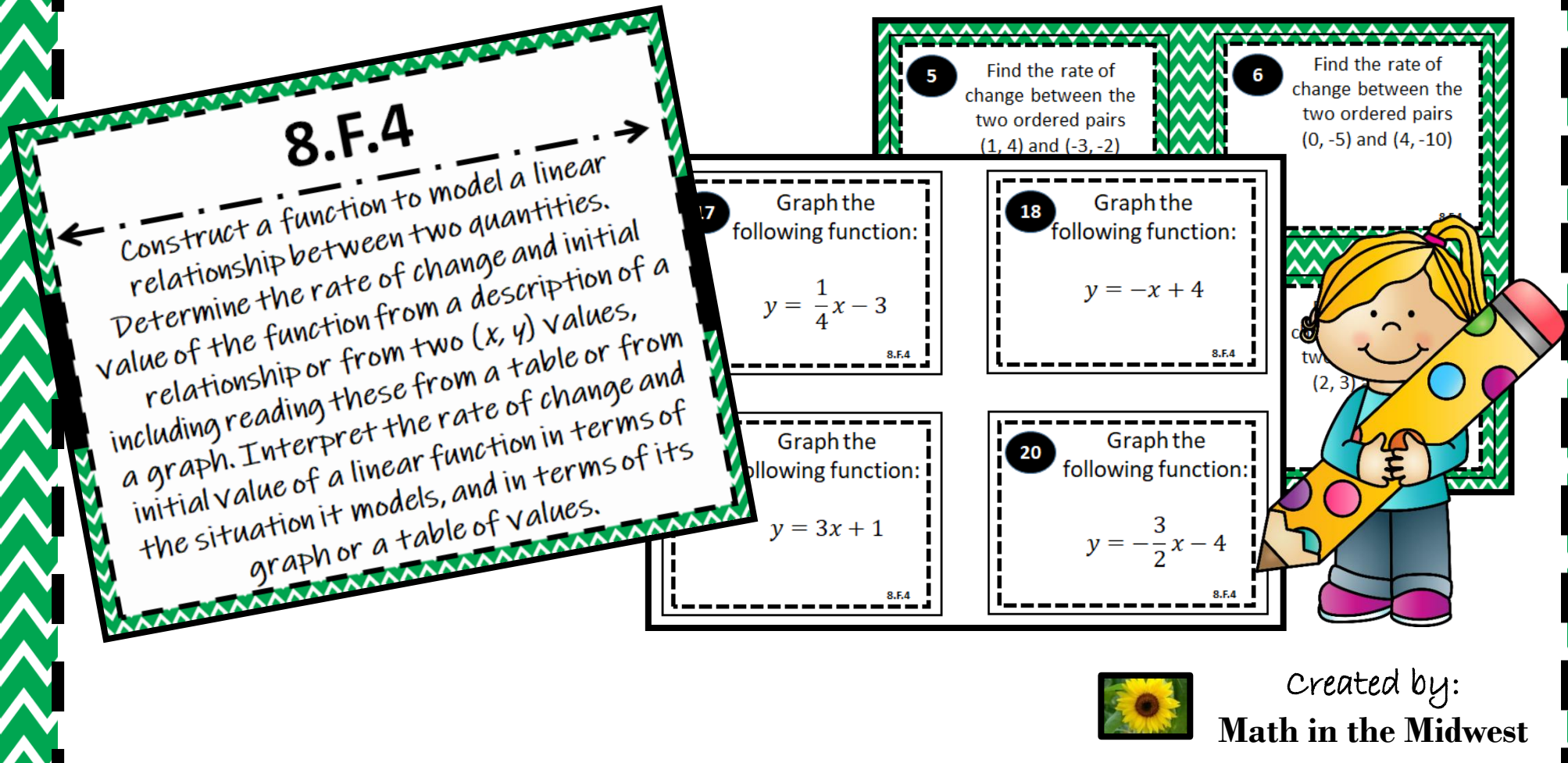
Functions: Task Cards 8.F.4

20 Task Cards, Recording Sheet, Answer Sheet



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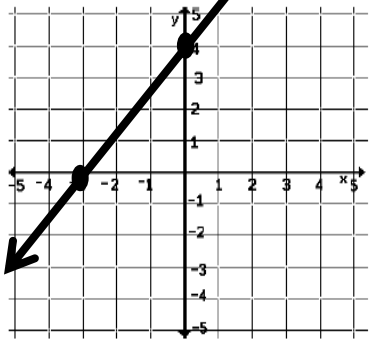
Math in the Midwest

8.F.4

Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.

1 Write the equation for the following function:



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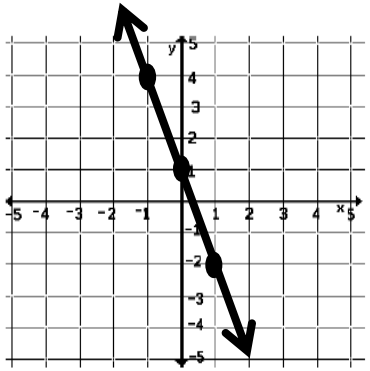
2 Write the equation for the following function:



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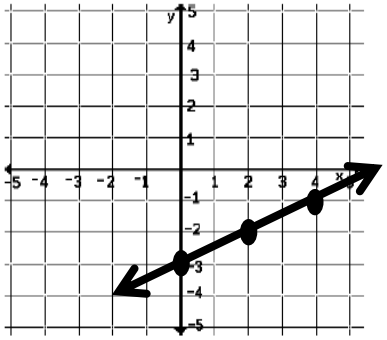
3 Write the equation for the following function:



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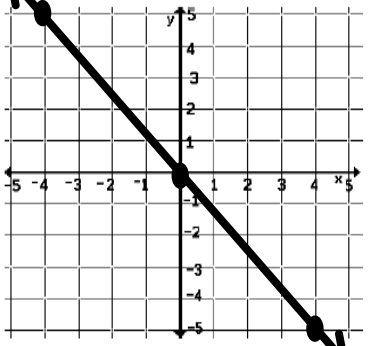
4 Write the equation for the following function:



8.F.4

5

Find the rate of change between the two ordered pairs (1, 4) and (-3, -2)

8.F.4

6

Find the rate of change between the two ordered pairs (0, -5) and (4, -10)

8.F.4

7

Find the rate of change between the two ordered pairs (3, 6) and (5, 7)

8.F.4

8

Find the rate of change between the two ordered pairs (2, 3) and (3, 7)

8.F.4

9

What is the slope of the line

$4y = 8x + 1$

8.F.4

10

What is the slope of the line

$5x + 5y = 15$

8.F.4

11

What are the x and y intercepts of the function:

$3x + 6y = 12$

8.F.4

12

What are the x and y intercepts of the function:

$2x - 8y = 12$

8.F.4

13

Consider the linear equation $4x + 2y = 16$. Complete the table.

x	y
	0
0	
	2

8.F.4

14

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

x	y
	0
0	
	6

8.F.4

15

Determine the rate of change from the following table:

x	y
2	4
3	6
4	8

8.F.4

16

Determine the rate of change from the following table:

x	y
-2	-4
-1	-8
0	-12

8.F.4

17

Graph the following function:

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

8.F.4

18

Graph the following function:

$$y = -x + 4$$

8.F.4

19

Graph the following function:

$$y = 3x + 1$$

8.F.4

20

Graph the following function:

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

8.F.4

21

8.F.4

22

8.F.4

23

8.F.4

24

8.F.4

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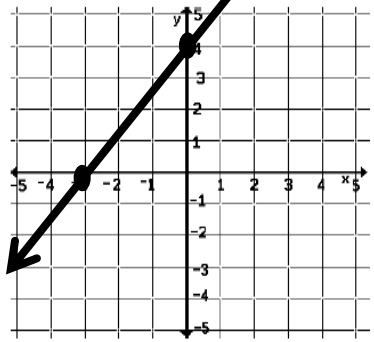

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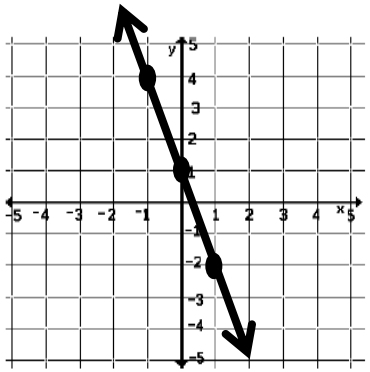

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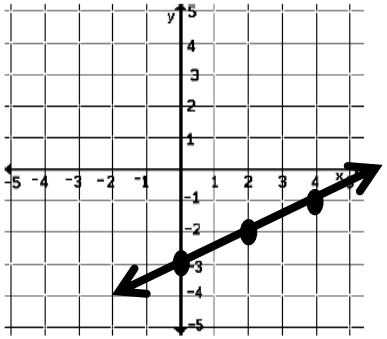

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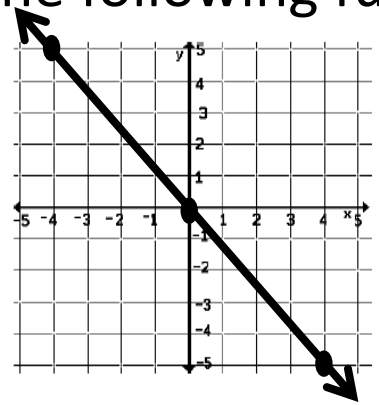

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8.F.4

21

8.F.4

22

8.F.4

23

8.F.4

24

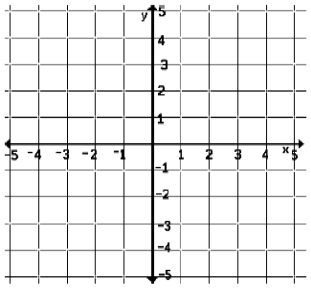
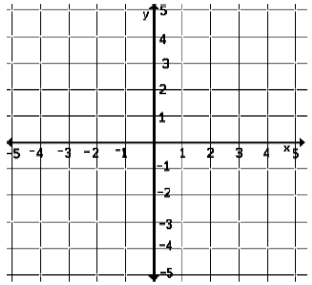
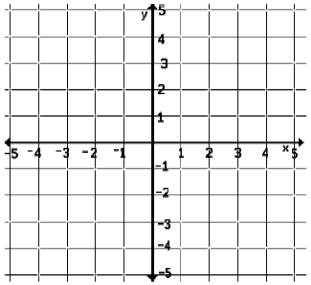
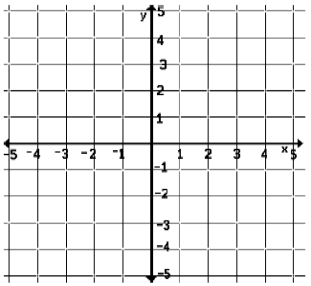
8.F.4

Name _____ Hour _____

8.F.4 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	8.	9.

Name _____ Hour _____

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

Answer Key

Number	Answer
1	$y = \frac{4}{3}x + 4$
2	$y = -3x + 1$
3	$y = \frac{1}{2}x - 3$
4	$y = \frac{5}{4}x$
5	$\frac{2}{3}$
6	$-\frac{5}{4}$
7	$\frac{1}{2}$
8	4
9	2
10	-1

Number	Answer
11	$(4, 0) and\ (0, 2)$
12	$(6, 0) and\ (0, -\frac{3}{2})$
13	Missing Values 4, 8, and 3
14	Missing Values 12, -4 and 20
15	2
16	-4
17	$Check\ Students\ Graph$
18	$Check\ Students\ Graph$
19	$Check\ Students\ Graph$
20	$Check\ Students\ Graph$

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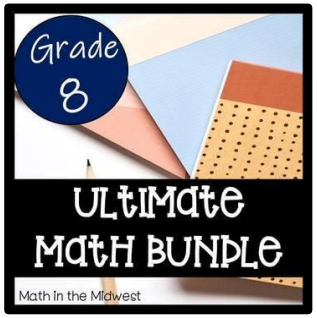

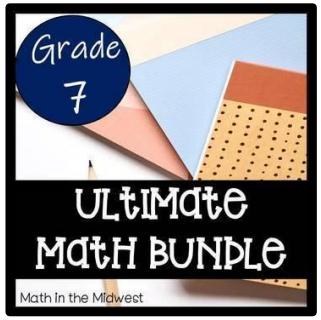

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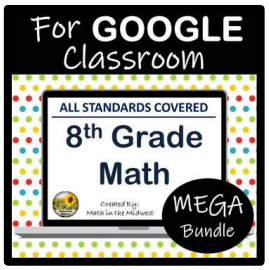

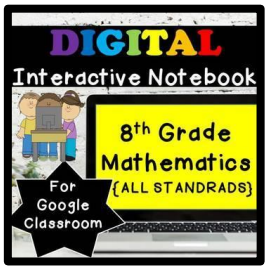

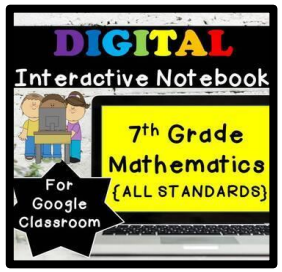

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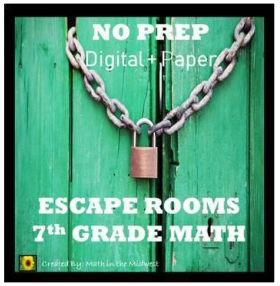

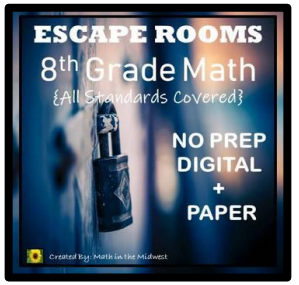

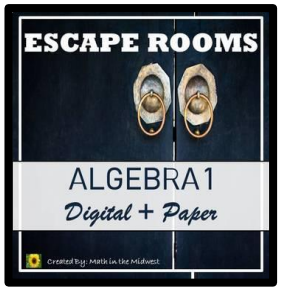

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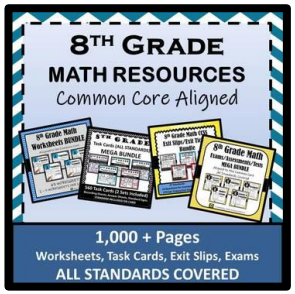

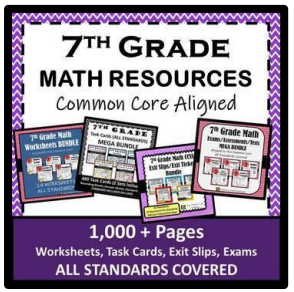

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