

Functions: Task Cards 8.F.5

20 Task Cards, Recording Sheet, Answer Sheet

8.F.5

Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.

5

Jacob left home to go to work and on his way he stopped to get a coffee. Then he kept driving until he got to work. After work he went straight home. Sketch a graph of the

6

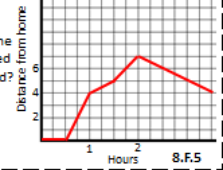
Katie spent the night at her cousins house. That evening she realized she forgot her cell phone and drove back to her house to get it and then back to her cousins house to stay the night. Sketch a graph of her distance from home of the following situation.

8.F.5

18

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

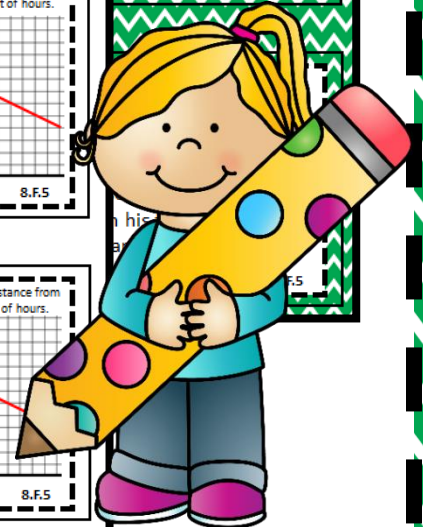
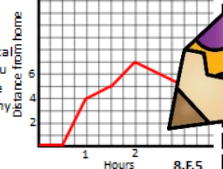
What was the fastest speed Amy traveled?



20

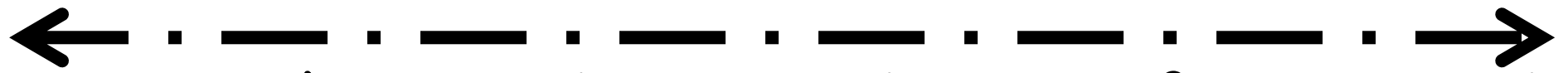
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How many total hours can you see from the graph that Amy is moving?



Created by:
Math in the Midwest

8.F.5

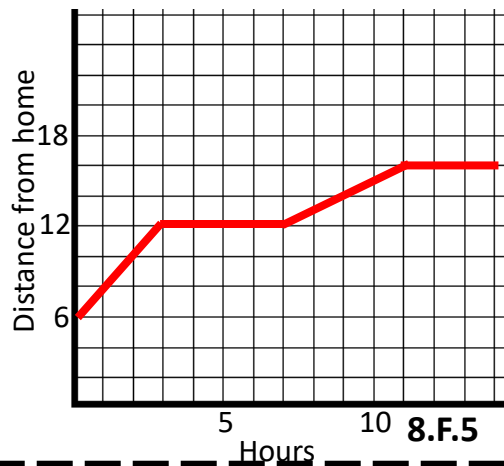


Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.

1

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

How far was Megan from home after 3 hours?

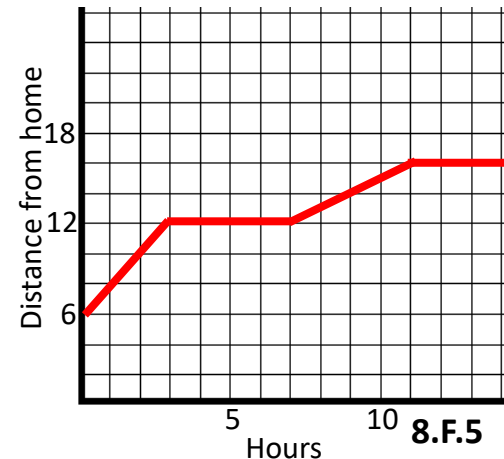


8.F.5

2

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

How fast did Megan travel from 3 to 7 hours?

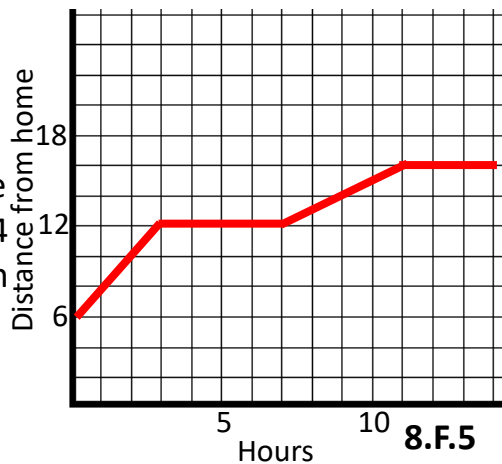


8.F.5

3

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

How many hours did it take Megan to get 14 miles away from her house?

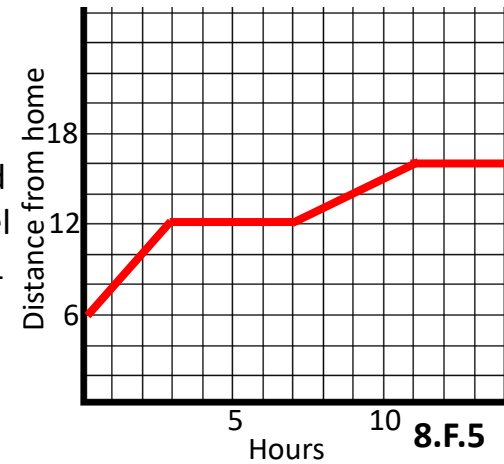


8.F.5

4

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

How fast did Megan travel from 7 to 11 hours?



8.F.5

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

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A car is parked and then starts to move at a constant speed before gradually coming to a stop again. Sketch a graph of the following situation.

8.F.5

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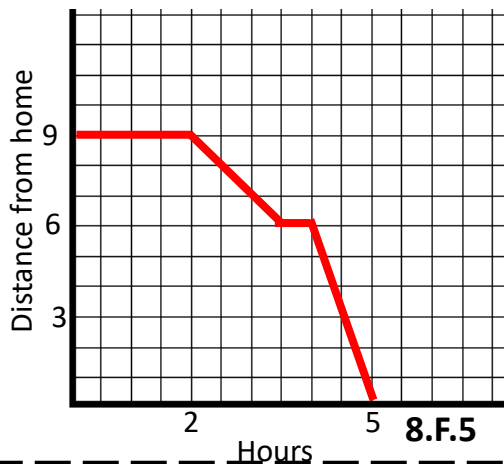
Tyler leaves home to go to school, stays at school, and then after school goes to the park which is close to his house to play with his friends. Sketch a graph of the following situation.

8.F.5

9

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

How far was did Hunter start away from home?

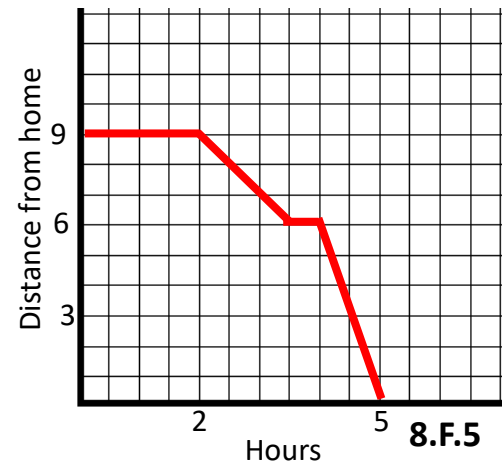


8.F.5

10

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

How long was Hunter staying in the same place?

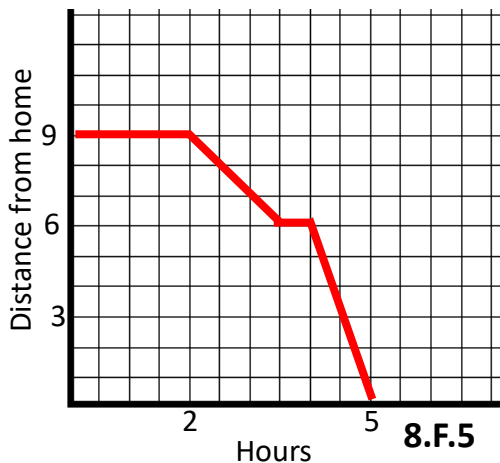


8.F.5

11

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

How fast did Hunter travel from hours 4 to 5?

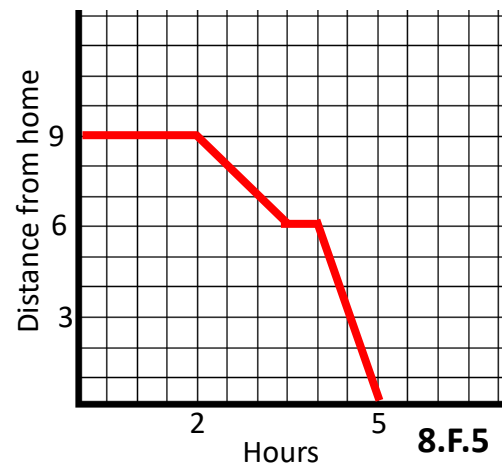


8.F.5

12

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

Did Hunter travel at the same pace the entire time on his journey home?



8.F.5

13

What does it mean when a graph of speed starts at $(0, 0)$?

8.F.5

14

If distance is represent on the y – axis and time on the x-axis, what does a line with a negative slope represent?

8.F.5

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If speed is on the y axis and time on the x-axis, what does a line with a slope of zero represent?

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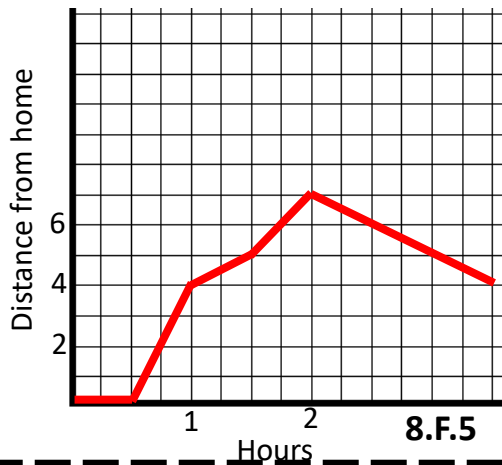
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How far away from home did Amy start?

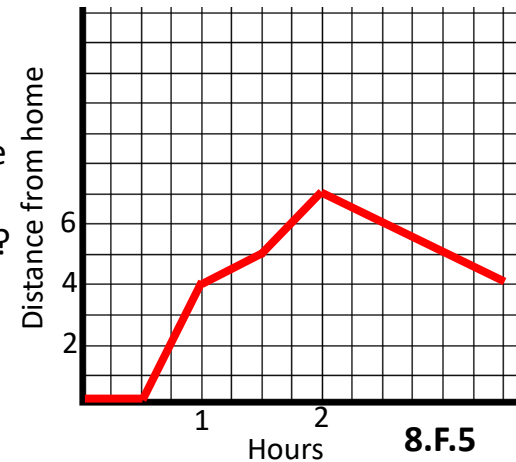


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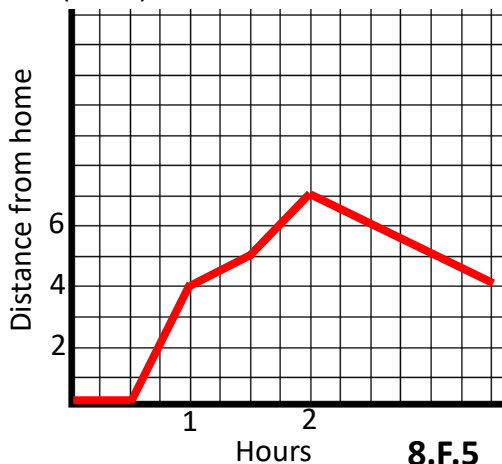


8.F.5

19

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What is the slowest speed Amy traveled?

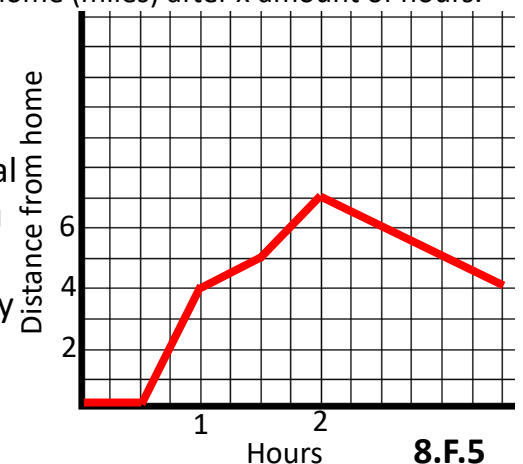


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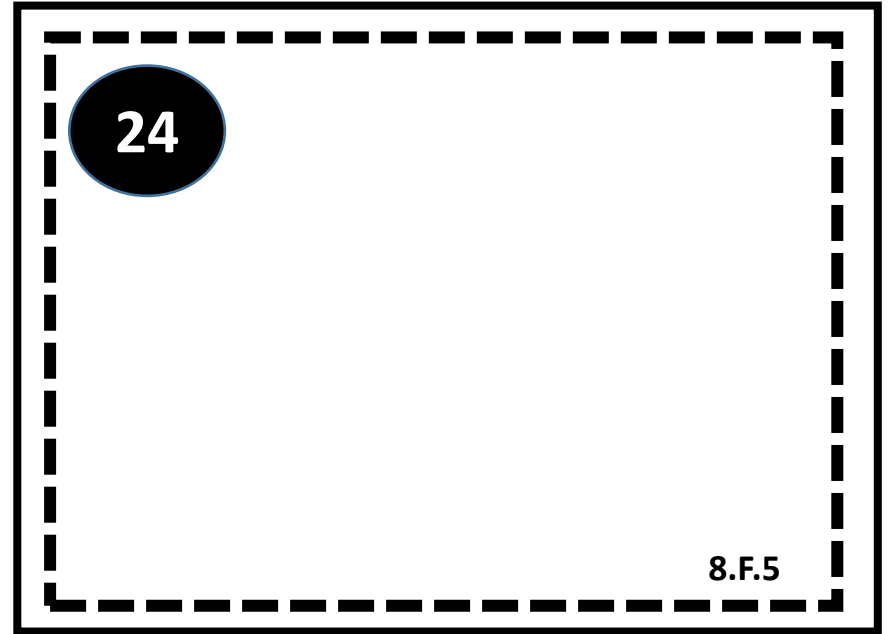
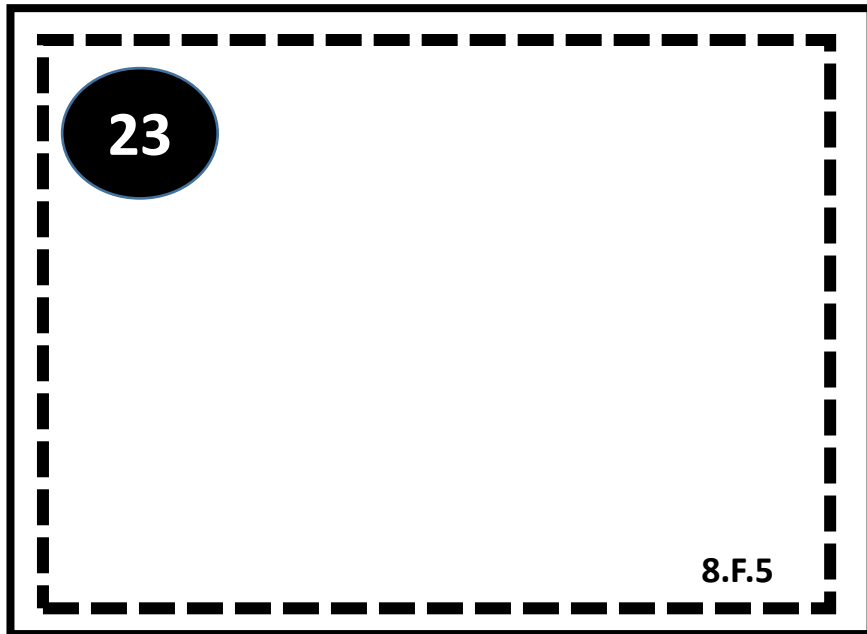
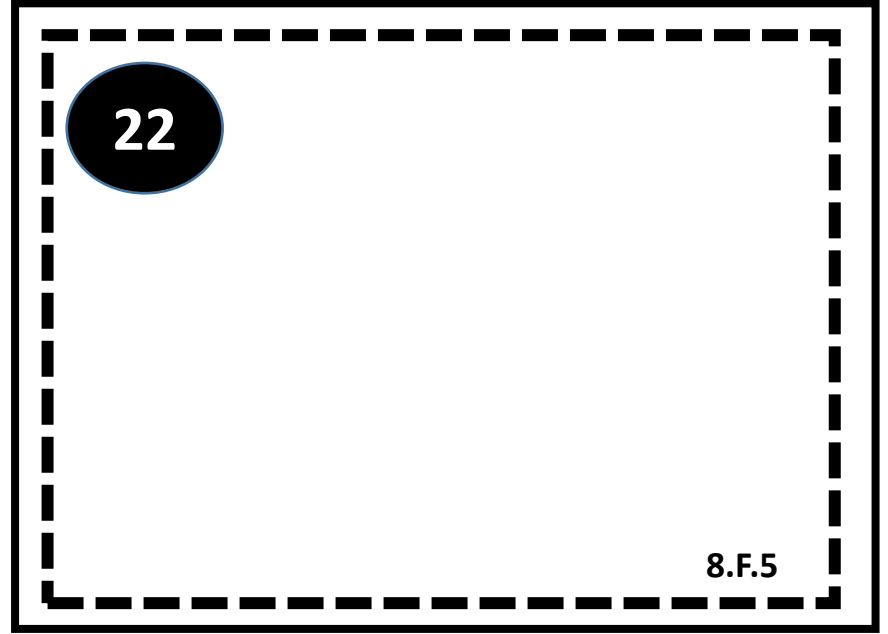
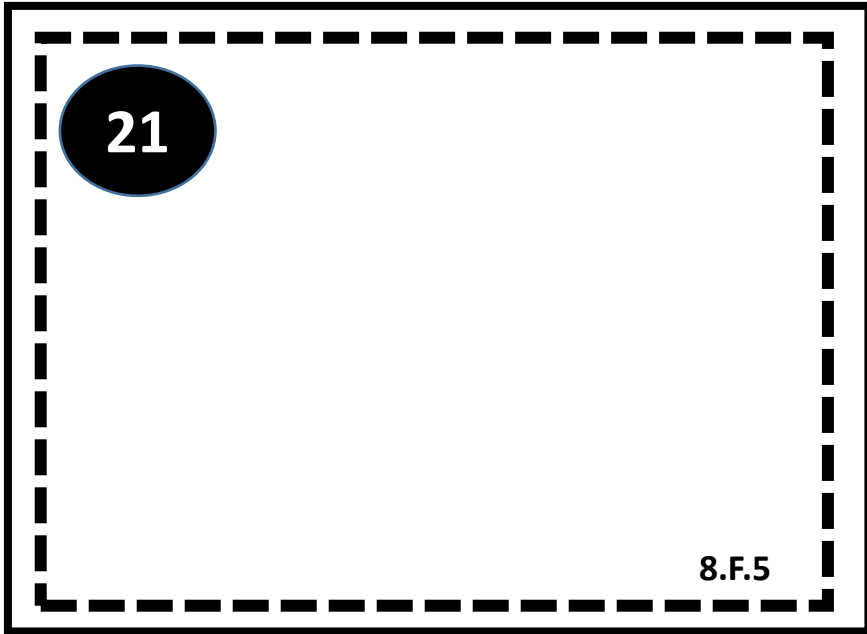
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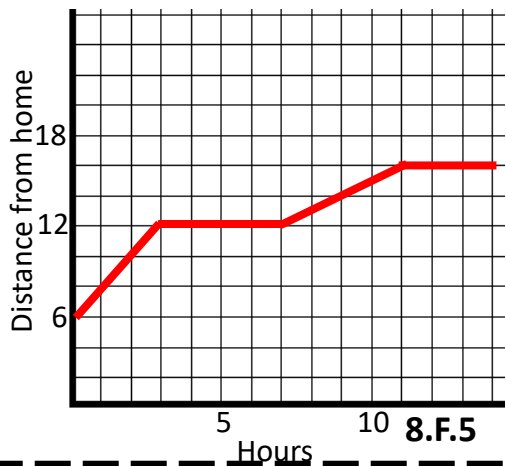
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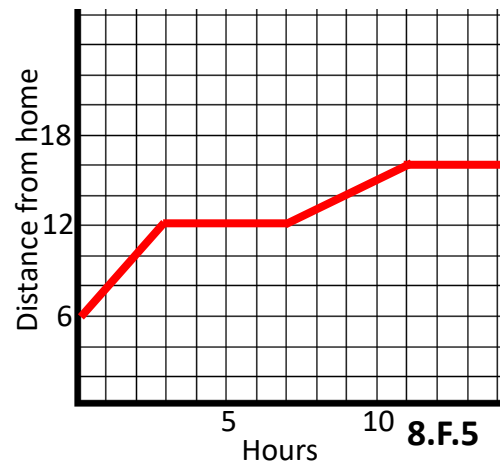
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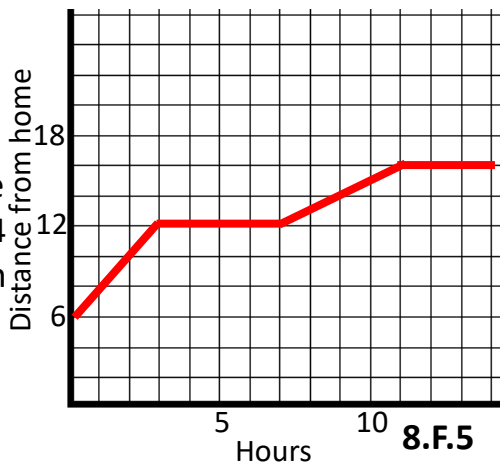
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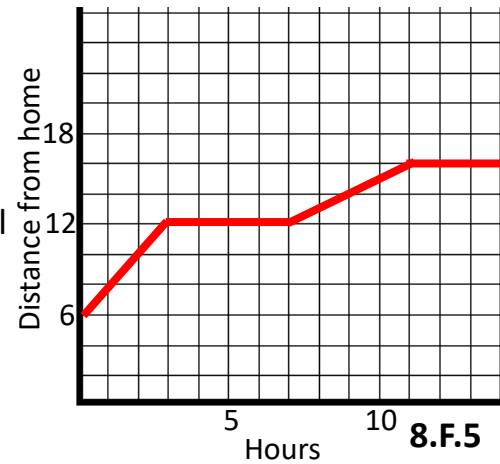
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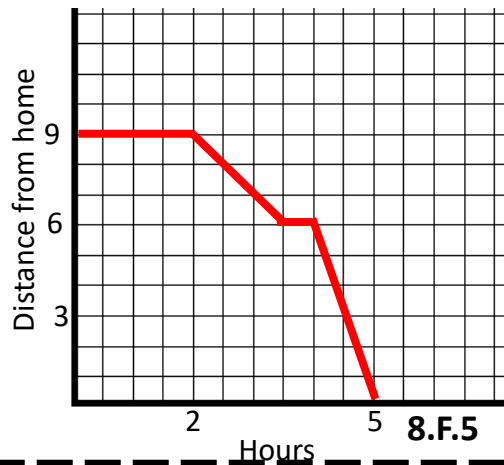
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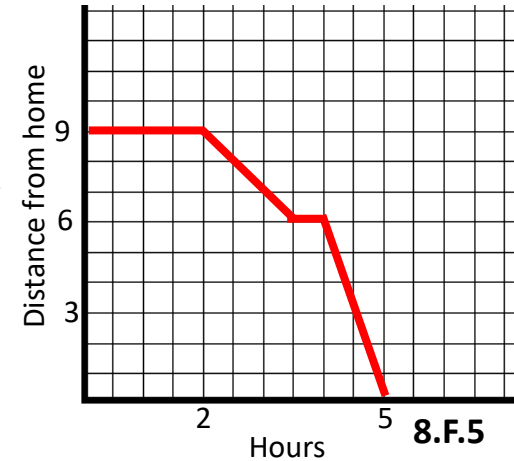
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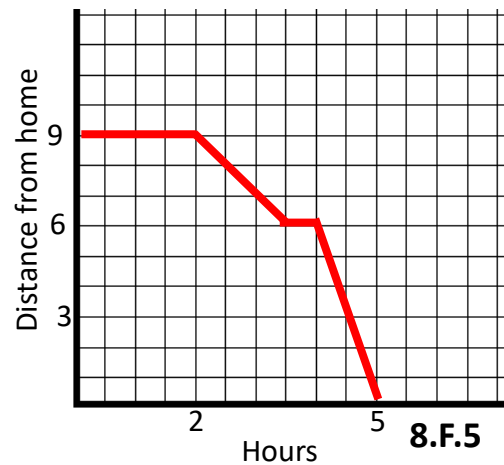
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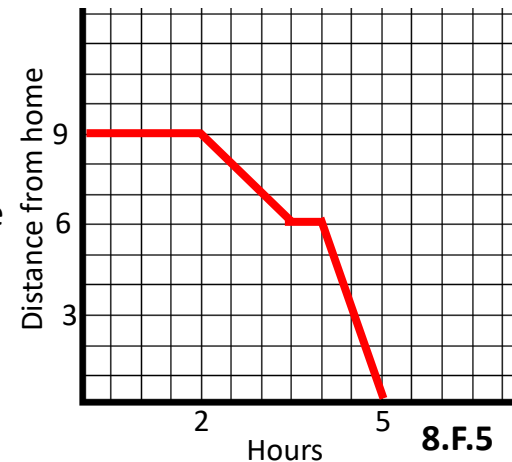
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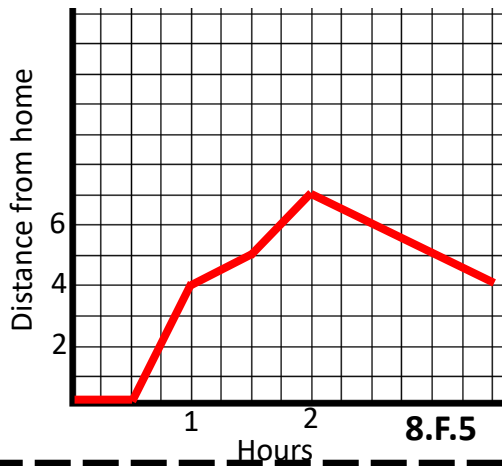
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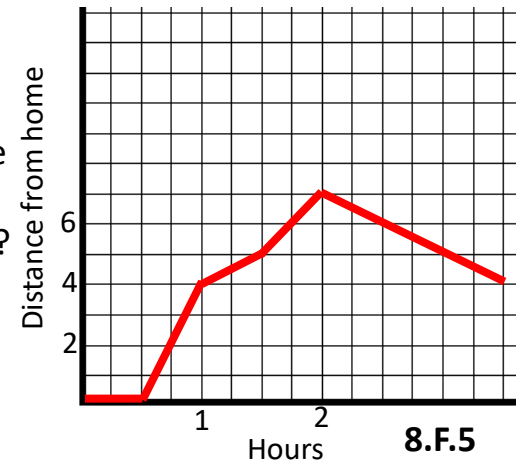


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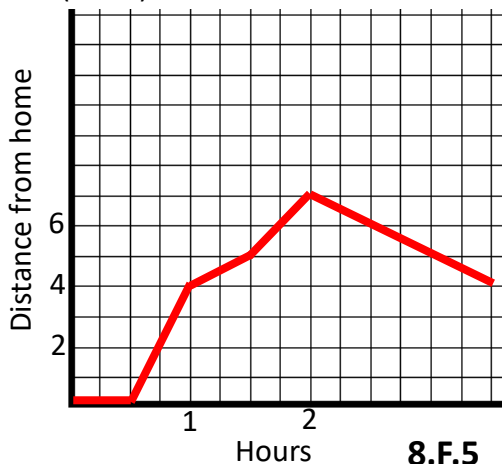


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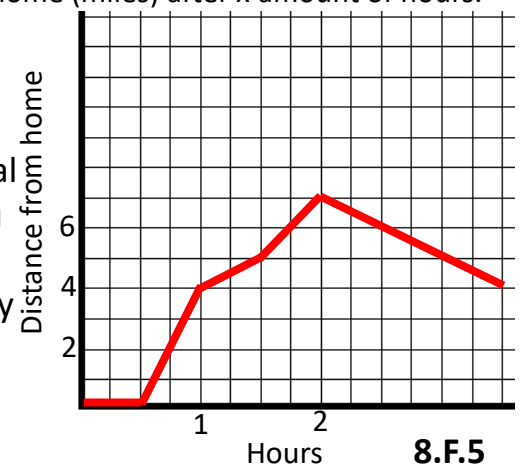


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8.F.5

21

8.F.5

22

8.F.5

23

8.F.5

24

8.F.5

Name _____

Hour _____

8.F.5 Recording Sheet

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

Name _____

Hour _____

10.

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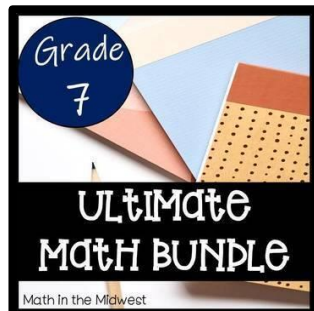
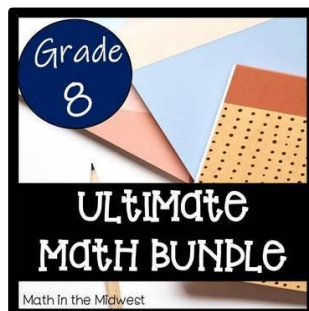
Answer Key

Number	Answer
1	<i>12 miles</i>
2	<i>0 mph</i>
3	<i>9 hours</i>
4	<i>2 mph</i>
5	<i>Check Students Graphs</i>
6	<i>Check Students Graphs</i>
7	<i>Check Students Graphs</i>
8	<i>Check Students Graphs</i>
9	<i>9 miles</i>
10	<i>2.5 hours</i>

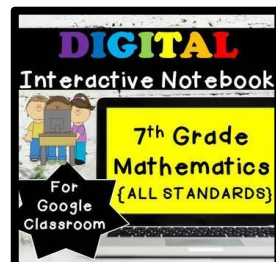
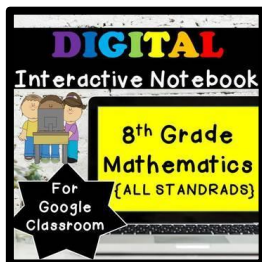
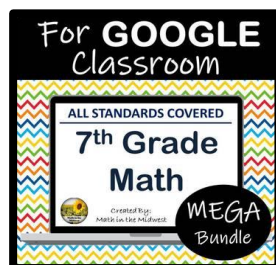
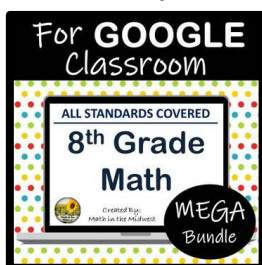
Number	Answer
11	<i>6 mph</i>
12	<i>No</i>
13	The object is not moving from the start
14	The object is moving closer
15	The object is moving at a constant speed
16	The object is staying in the same place
17	Started at home
18	<i>8 mph</i>
19	<i>2 mph</i>
20	<i>3 hours</i>

Check out my other products!

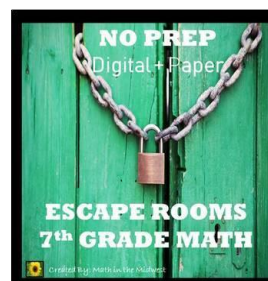
Ultimate Bundles:



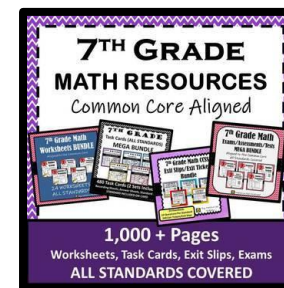
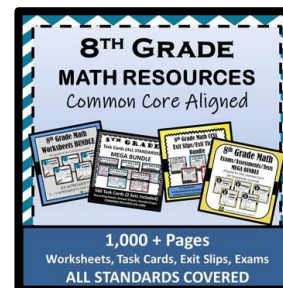
Digital Bundles:



Escape Rooms:



PDF Bundles:



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