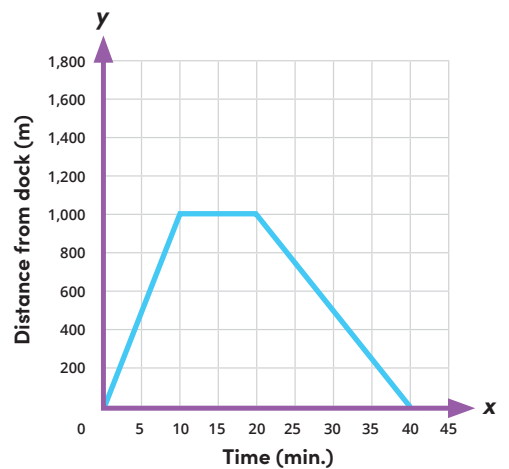# INTERPRETING FUNCTION RELATIONSHIPS

Use each story and graph to answer the questions below.

1 Aiden and his brother, Elijah, are canoeing. At first, they paddle quickly away from the dock. Before long, they get tired and decide to rest for a few minutes. Then, they paddle back to the dock slower than before.
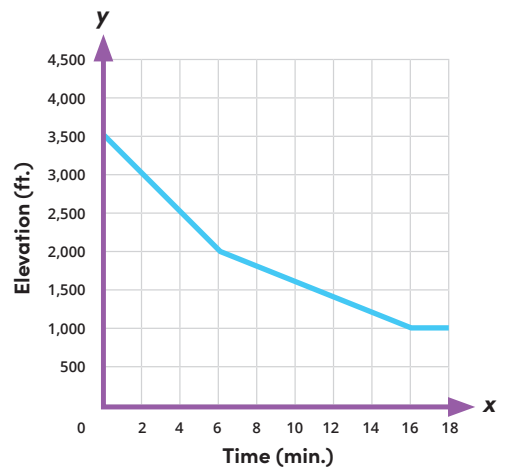
a. How long did Aiden and Elijah rest before returning to the dock?

10 minutes

b. How far did they paddle before they rested?

1,000 meters

c. How long did it take Aiden and Elijah to paddle back to the dock?

20 minutes

2 A snowboarder starts at the top of a mountain. Then, she snowboards down the mountain and ends at the lodge. The graph to the right shows her elevation above sea level over time.

a. What is her elevation at the top of the mountain?

3,500 feet

b. What is her elevation at the lodge?

1,000 feet

c. During which interval of time did the snowboarder descend faster: between 0 and 6 minutes or between 6 and 16 minutes? Explain how you know.

She descended faster between 0 and 6 minutes. The slope of the graph is steeper during that interval.

3 Camilla went on a bike ride yesterday. It was a hot day, so she stopped along the way for water breaks. The graph to the right shows the total distance Camilla rode over time.

a. How many times did Camilla stop for a water break?

2 times

b. How far did Camilla bike in all?

20 kilometers

c. At what rate did Camilla bike before she took her first water break? Make sure to write your rate in terms of kilometers per hour.

20 kilometers per hour

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