

5.3

Interpreting and Sketching Graphs

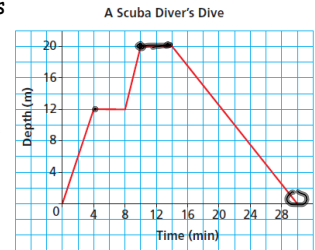
Lesson 5

Connect

Definitions:

In math, a graph provides much information.

This graph shows the depth of a scuba diver as a function of time.



a) How many minutes did the dive last?

30 minutes

b) At what times did the diver stop her descent?

10 minutes
4 minutes.

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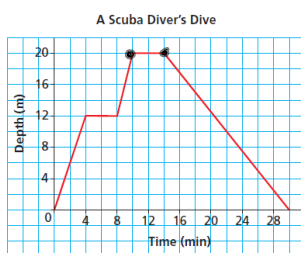
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Connect

Making Connections

In math, a graph provides much information.

This graph shows the depth of a scuba diver as a function of time.



c) What was the greatest depth the diver reached?

20 meters

d) For how many minutes was the diver at that depth in (c)?

$14 - 10 = 4$ minutes.

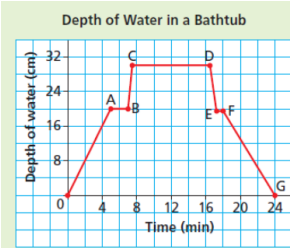
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Connect

Making Connections

In math, a graph provides much information.

This graph shows the depth of water in a bathtub as a function of time.



a) What is happening from 0 to A?

filling the bathtub

b) What happened from A to B?

turned off the tap

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Connect **Making Connections**

In math, a graph provides much information.

This graph shows the depth of water in a bathtub as a function of time.

c) What happened from B to C?
Person got in the bath

d) Describe the rest of the segments?
*C-D => Sat in tub
 D-E -> got out
 E-F -> drying off
 F-G -> draining the water*

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Practice **Interpreting a Graph** **EXAMPLE 1**

Each point on this graph represents a bag of popping corn. Explain the answer to each question below.

a) Which bag is the most expensive?
Bag C \$7

b) Which bag has the least mass? What is the mass?
B 500g

c) Which bags have the same mass? What is the mass?
D and E 1800g

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Practice **Interpreting a Graph** **EXAMPLE 1**

Each point on this graph represents a bag of popping corn. Explain the answer to each question below.

d) Which bags cost the same? What is the cost?
A and E \$4

e) Which of bags C or D has the better value for the money?

$$\frac{\$7}{1600}$$

$$\frac{\$5.50}{1800}$$
D is better Deal

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Practice **Interpreting a Graph** **YOU TRY!**

Each point on this graph represents a person. Explain the answer to each question below.

a) Which person is the oldest? What is her or his age?
G 18 years

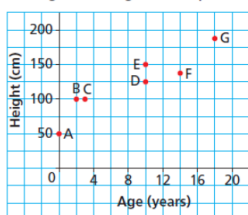
b) Which person is the youngest? What is her or his age?
A New Born.

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Practice Interpreting a Graph **YOU TRY!**

Each point on this graph represents a person. Explain the answer to each question below.

Ages and Heights of People



c) Which 2 people have the same height? What is this height?
B, C 100cm

d) Which 2 people have the same age? What is the age?
D, E 10 yrs

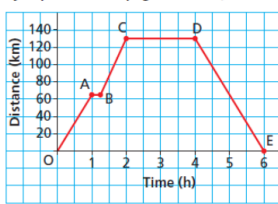
e) Which of person B or C is taller for her or his age?
B younger same height.

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Practice Describing a Possible Situation **EXAMPLE 2**

Describe the journey for each segment of the graph

Day Trip from Winnipeg to Winkler, Manitoba



a) Describe what is happening between 0 and A.
Left Winnipeg on way to Winkler

b) Describe what is happening between A and B.
*-> Pit stop
 -> Bathroom Break.*

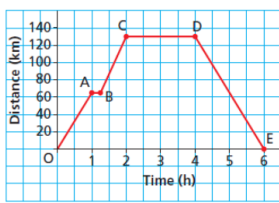
c) Describe what is happening between B and C.
Continue Trip to Winkler

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Practice Describing a Possible Situation **EXAMPLE 2**

Describe the journey for each segment of the graph

Day Trip from Winnipeg to Winkler, Manitoba



d) Describe what is happening between C and D.
*Visit at Winkler
 ->*

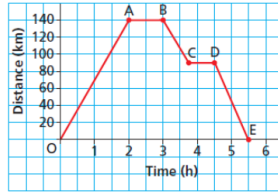
e) Describe what is happening between D and E.
Driving back to Winnipeg.

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Practice Describing a Possible Situation **YOU TRY!**

Describe the journey for each segment of the graph

Day Trip from Athabasca to Kikino



a) Describe what is happening between 0 and A.
Travel 2hrs to Kikino

b) Describe what is happening between A and B.
Visit

c) Describe what is happening between B and C.
Drove 145km then stop.

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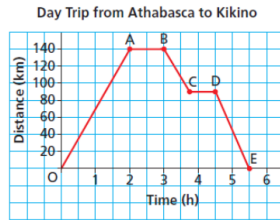
Describe the journey for each segment of the graph

d) Describe what is happening between C and D.

Stopped enjoyed the View.

e) Describe what is happening between D and E.

*Returned home
1 hr.*



Textbook Questions:

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