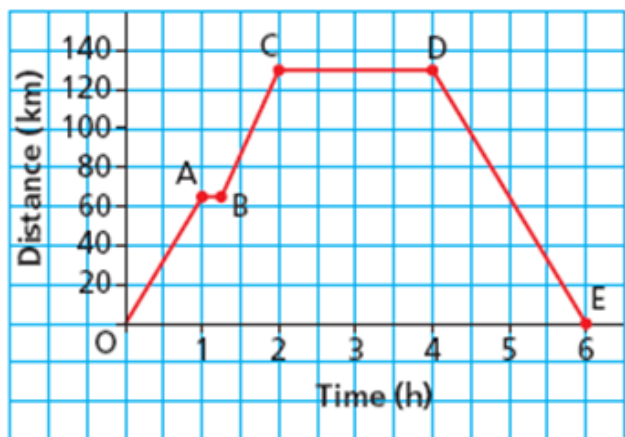


# WARM-UP...

Describe the journey for each segment of the graph.

The distance between  
Winnipeg and Winkler is 130 km.

Day Trip from Winnipeg to Winkler, Manitoba



## **Practice Problems...**

p. 281: #3 - 6, 11, 16

**EXAMPLE:**

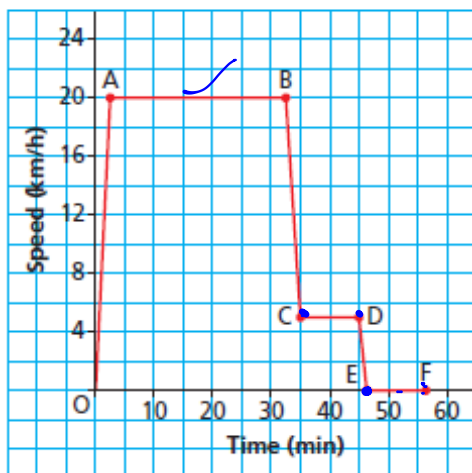
Construct  
The Graph!!!

S

Samuel's Bicycle Ride

Samuel went on a bicycle ride. He accelerated until he reached a speed of 20 km/h, then he cycled for 30 min at approximately 20 km/h. Samuel arrived at the bottom of a hill, and his speed decreased to approximately 5 km/h for 10 min as he cycled up the hill. He stopped at the top of the hill for 10 min.

Sketch a graph of speed as a function of time. Label each section of the graph, and explain what it represents.

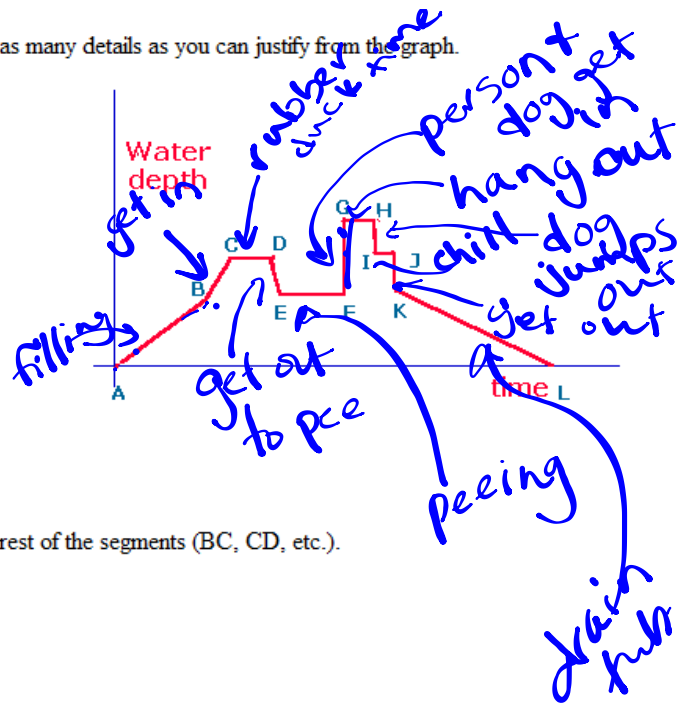


Segment	Journey
OA	Samuel's speed increases from 0 to 20 km/h, so the segment goes up to the right.
AB	Samuel cycles at approximately 20 km/h for 30 min. His speed does not change, so the segment is horizontal.
BC	Samuel's speed decreases to 5 km/h, so the segment goes down to the right.
CD	Samuel cycles uphill at approximately 5 km/h for 10 min. His speed does not change, so the segment is horizontal.
DE	Samuel slows down to 0 km/h, so his speed decreases and the segment goes down to the right.
EF	Samuel remains stopped at 0 km/h for 10 min, so the segment is horizontal.

Based upon the graph below, answer the following question with as many details as you can justify from the graph.

A-B  
B-C  
C-D  
D-E  
E-F  
F-G  
G-H

H-I  
I-J  
J-K  
K-L



Tell the Story...

If the tub is filled during AB, describe what happens in the rest of the segments (BC, CD, etc.).

**PRACTICE PROBLEMS: p. 281 #7 - 10, #13 - 15**

## Attachments

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Worksheet - Function Notation.pdf