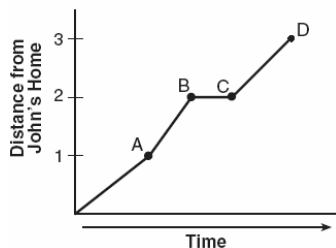


## Lesson 5-1: Relating Graphs to Events

### Part 1: Interpreting, Sketching, and Analyzing Graphs

1. 010412a, P.I. 8.A.3

John left his home and walked 3 blocks to his school, as shown in the accompanying graph.

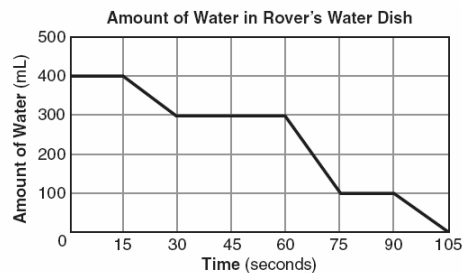


What is one possible interpretation of the section of the graph from point *B* to point *C*?

- [A] John arrived at school and stayed throughout the day.
- [B] John reached the top of a hill and began walking on level ground.
- [C] John returned home to get his mathematics homework.
- [D] John waited before crossing a busy street.

2. 080410a, P.I. 8.A.3

The accompanying graph shows the amount of water left in Rover's water dish over a period of time.

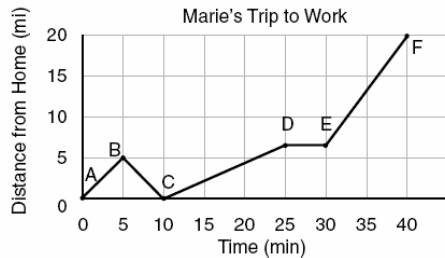


How long did Rover wait from the end of his first drink to the start of his second drink of water?

- [A] 10 sec
- [B] 30 sec
- [C] 75 sec
- [D] 60 sec

3. 010121a, P.I. 8.A.3

The accompanying graph shows Marie's distance from home ( $A$ ) to work ( $F$ ) at various times during her drive.

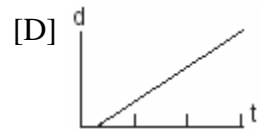
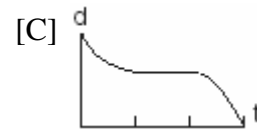
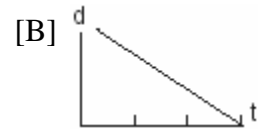


*a* Marie left her briefcase at home and had to return to get it. State which point represents when she turned back around to go home and explain how you arrived at that conclusion.

*b* Marie also had to wait at the railroad tracks for a train to pass. How long did she wait?

4. 060114b, P.I. 8.A.3

A bug travels up a tree, from the ground, over a 30-second interval. It travels fast at first and then slows down. It stops for 10 seconds, then proceeds slowly, speeding up as it goes. Which sketch best illustrates the bug's distance ( $d$ ) from the ground over the 30-second interval ( $t$ )?



[1] D \_\_\_\_\_

[2] B \_\_\_\_\_

a [1] B, and an appropriate explanation is given.

b [1] 5 minutes

a and b

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[3] incorrect procedure. \_\_\_\_\_

[4] A \_\_\_\_\_