

**Chapter 6**

Use with Section 1

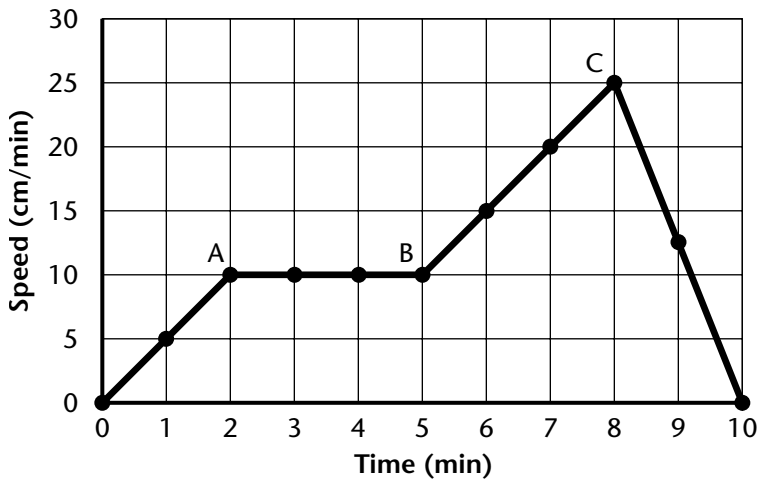
**REINFORCEMENT**

● **How does speed change?**

Identify what each of the following formulas is used to find.

1. (change in speed)/time \_\_\_\_\_
2. acceleration × time \_\_\_\_\_
3. (total distance traveled)/time \_\_\_\_\_
4.  $\frac{1}{2}$  (acceleration)(time)<sup>2</sup> \_\_\_\_\_

The graph shows the various speeds at which a worm travels over a 10-minute interval. Use the graph to answer the questions that follow.



5. What is the greatest speed the worm reaches? \_\_\_\_\_
6. What is the worm's acceleration during the first 2 minutes? \_\_\_\_\_
7. How fast is the worm traveling as it goes from A to B? \_\_\_\_\_
8. How far does the worm travel from A to B? \_\_\_\_\_
9. What is the worm's acceleration from A to B? \_\_\_\_\_
10. How does the worm's motion change from B to C? \_\_\_\_\_
11. What is the worm's acceleration during the last 2 minutes? \_\_\_\_\_  
\_\_\_\_\_
12. How would you describe the worm's motion during the last 2 minutes? \_\_\_\_\_
13. How far does the worm travel during the last 2 minutes? \_\_\_\_\_