

Chapter 24

Use with Section 1

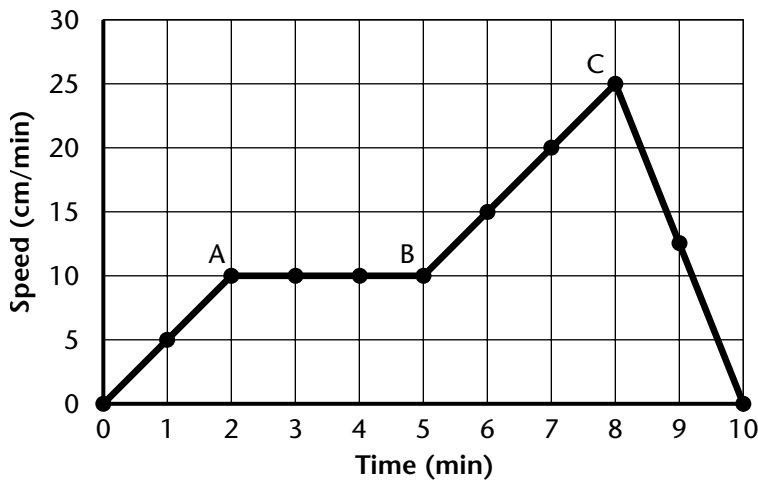
REINFORCEMENT

● **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)² _____

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? _____