

SECTION 2

Study Guide

Acceleration

Chapter

1

Directions: In the space provided, substitute a word for the word in *italics* to make the statement correct.

- _____ 1. *Velocity* is a change in an object's motion.
- _____ 2. Acceleration is the rate of change of velocity with *distance*.
- _____ 3. When an object slows down, it has *no* acceleration.

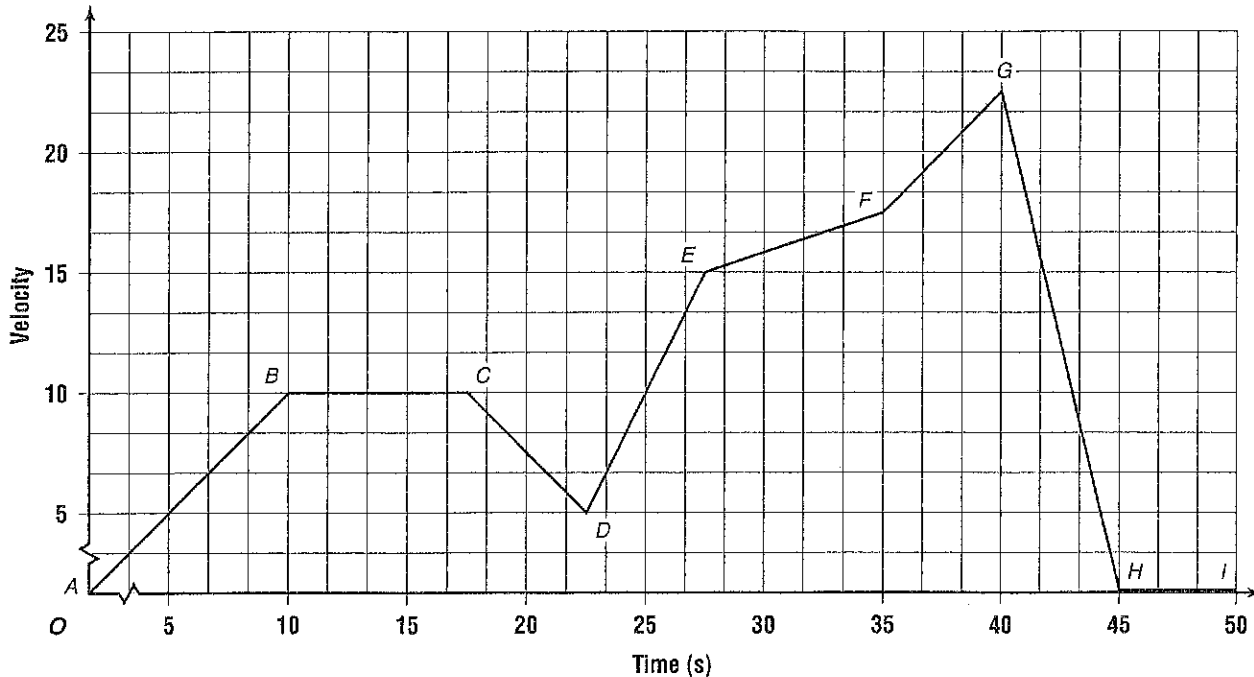
Directions: Answer the following questions on the lines provided.

4. A merry-go-round horse travels at a constant speed. Is it accelerating? Explain.
- _____

5. What is the unit for speed? For acceleration?
- _____

6. If an object has an acceleration of -3 m/s^2 , describe its motion.
- _____

Directions: Study the velocity-time graph for an object in motion. Then answer the following questions.



7. In what interval does the object have the fastest acceleration?
- _____
8. Over what interval(s) does the object have a negative acceleration?
- _____
9. Over what interval is the object stopped?
- _____