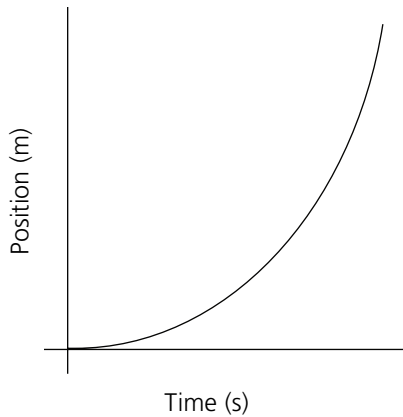




### Chapter 13 Quiz (continued)

10. A person standing on a bridge throws a rock down toward the water. The rock's velocity is 34 m/s downward when it hits the water 1.6 s later. Assuming no air resistance, what was the rock's velocity when it left the person's hand?
- A. 18 m/s downward                      C. 36 m/s downward  
 B. 32 m/s downward                      D. 50 m/s downward
11. A rock falls off a cliff and hits the ground 2.3 s later. Assuming no air resistance, what is the rock's velocity when it hits the ground?
- A. 2.3 m/s downward                      C. 23 m/s downward  
 B. 4.3 m/s downward                      D. 43 m/s downward
12. Use the graph below to answer the question.



What would a velocity–time graph for the motion of the same object look like?

- A. straight line, horizontal                      C. straight line, sloped upward  
 B. curved line, sloped upward                      D. straight line, sloped downward

**Part D: Short Answer**

13. The principles of acceleration can be used to describe a variety of real-world motions. Give an example of how acceleration applies to straight-line motion in everyday life. For your given example, describe how the object's displacement, velocity, and acceleration change, or if they are constant.

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