Name: _____   _____/ 8
Chapter 2.3 Homework
Conceptual Physics   Parent Signature: _____

Reviewing Concepts

13. The slope of a velocity vs. time graph is equal to the object's _____. (1)
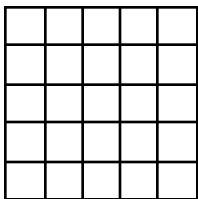

14. A graph is made of the velocity vs. time of a plane as it flies from San Francisco to the Kahului Airport on Maui. How could the displacement of the plane be calculated from the graph? (1)
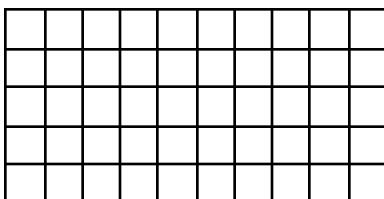

Solving Problems

12. View the graph on page 49 in your text, then answer the following:

    a. Calculate the velocity from the position vs. time graph. Show your work. (1)

    b. Draw the velocity vs. time graph showing the same motion. (1)

13. Draw a velocity vs. time graph for a car that starts at rest and steadily accelerates until it is moving at 40 m/s after 20 s. Then calculate the car's acceleration and displacement during the first 20 s. (3)

14. Draw a velocity vs. time graph for an object accelerating from rest with a constant acceleration of 2 m/s². (1)