

# 6 Chapter Assessment

Use with Chapter 6.

## Forces

### Understanding Concepts Part A

Write the letter of the choice that best completes the statement or answers the question.

- According to Newton's \_\_\_\_\_ law, an object with no net force acting on it remains at rest or in motion with a constant velocity.  
 a. first      b. second      c. third
- Losing speed as you ride your bike uphill demonstrates Newton's \_\_\_\_\_ law.  
 a. first      b. second      c. third
- If you push against a wall, the wall pushes back against you with \_\_\_\_\_ force.  
 a. no      b. less      c. equal      d. more
- An object is in equilibrium if \_\_\_\_\_.  
 a. it has no weight      c. it is accelerating  
 b. the net force on it is zero      d. only one force is acting on it
- The gravitational force exerted by a large body, such as Earth, is \_\_\_\_\_.  
 a. weight      c. acceleration  
 b. mass      d. inertial mass
- Mass and weight are related by \_\_\_\_\_.  
 a. the force of gravity      c. friction  
 b. newtons      d. inertia
- If the weight of a balloon is 3000 N and the lift force provided by the atmosphere is 3300 N, in which direction is the net force acting?  
 a. upward      c. toward the east  
 b. downward      d. toward the north
- When the drag force on an object equals the force of gravity, the object attains \_\_\_\_\_.  
 a. acceleration      c. terminal velocity  
 b. inertial mass      d. maximum mass
- The period of a simple pendulum depends upon \_\_\_\_\_.  
 a. the mass of the bob      c. the amplitude of the swing  
 b. the length of the pendulum      d. the stiffness of the pendulum
- To produce mechanical resonance, the time between applied forces must equal the \_\_\_\_\_ of the object.  
 a. period      c. length  
 b. frequency      d. mass

# Chapter 6 Study Guide Physics Principles Problems

## Answers

**Raymond A. Serway, John W. Jewett**

## **Chapter 6 Study Guide Physics Principles Problems Answers:**

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