

Assessment

Chapter Test B**Circular Motion and Gravitation****MULTIPLE CHOICE**

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- _____ 1. What term describes a change in the speed of an object in circular motion?
- a. tangential speed
 - b. tangential acceleration
 - c. centripetal acceleration
 - d. centripetal force
- _____ 2. When a car makes a sharp left turn, what causes the passengers to move toward the right side of the car?
- a. centripetal acceleration
 - b. centripetal force
 - c. centrifugal force
 - d. inertia
- _____ 3. Two small masses that are 10.0 cm apart attract each other with a force of 10.0 N. When they are 5.0 cm apart, these masses will attract each other with what force? ($G = 6.673 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2$)
- a. 5.0 N
 - b. 2.5 N
 - c. 20.0 N
 - d. 40.0 N
- _____ 4. How would the speed of Earth's orbit around the sun change if Earth's distance from the sun increased by 4 times?
- a. It would increase by a factor of 2.
 - b. It would increase by a factor of 4.
 - c. It would decrease by a factor of 2.
 - d. The speed would not change.
- _____ 5. Which of the following statements is correct?
- a. The farther the force is from the axis of rotation, the more torque is produced.
 - b. The closer the force is to the axis of rotation, the more torque is produced.
 - c. The closer the force is to the axis of rotation, the easier it is to rotate the object.
 - d. The farther the force is from the axis of rotation, the less torque is produced.
- _____ 6. If the torque required to loosen a nut on a wheel has a magnitude of 40.0 $\text{N}\cdot\text{m}$ and the force exerted by a mechanic is 133 N, how far from the nut must the mechanic apply the force?
- a. 1.20 m
 - b. 15.0 cm
 - c. 30.1 cm
 - d. 60.2 cm

Holt Physics Answers Chapter 7

Grant R. Fowles



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