

## Physics I Honors: Chapter 6 Practice Test - Momentum and Collisions

### Multiple Choice

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

- \_\_\_\_\_ 1. Which of the following equations can be used to directly calculate an object's momentum,  $p$ ?
- $p = mv$
  - $p = F\Delta t$
  - $p = F\Delta t$
  - $\Delta p = F\Delta t$
- \_\_\_\_\_ 2. When comparing the momentum of two moving objects, which of the following is correct?
- The object with the higher velocity will have less momentum if the masses are equal.
  - The more massive object will have less momentum if its velocity is greater.
  - The less massive object will have less momentum if the velocities are the same.
  - The more massive object will have less momentum if the velocities are the same.
- \_\_\_\_\_ 3. A roller coaster climbs up a hill at 4 m/s and then zips down the hill at 30 m/s. The momentum of the roller coaster
- is greater up the hill than down the hill.
  - is greater down the hill than up the hill.
  - remains the same throughout the ride.
  - is zero throughout the ride.
- \_\_\_\_\_ 4. A rubber ball moving at a speed of 5 m/s hit a flat wall and returned to the thrower at 5 m/s. The magnitude of the momentum of the rubber ball
- increased.
  - decreased.
  - remained the same.
  - was not conserved.
- \_\_\_\_\_ 5. If a force is exerted on an object, which statement is true?
- A large force always produces a large change in the object's momentum.
  - A large force produces a large change in the object's momentum only if the force is applied over a very short time interval.
  - A small force applied over a long time interval can produce a large change in the object's momentum.
  - A small force always produces a large change in the object's momentum.
- \_\_\_\_\_ 6. The change in an object's momentum is equal to
- the product of the mass of the object and the time interval.
  - the product of the force applied to the object and the time interval.
  - the time interval divided by the net external force.
  - the net external force divided by the time interval.
- \_\_\_\_\_ 7. Which of the following situations is an example of a significant change in momentum?
- A tennis ball is hit into a net.
  - A helium-filled balloon rises upward into the sky.
  - An airplane flies into some scattered white clouds.
  - A bicyclist rides over a leaf on the pavement.
- \_\_\_\_\_ 8. A ball with a momentum of 4.0 kg•m/s hits a wall and bounces straight back without losing any kinetic energy. What is the change in the ball's momentum?
- 8.0 kg•m/s
  - 4.0 kg•m/s
  - 0.0 kg•m/s
  - 8.0 kg•m/s
- \_\_\_\_\_ 9. The impulse experienced by a body is equivalent to the body's change in
- velocity.
  - kinetic energy.
  - momentum.
  - force.

# Physical Science Chapter Practice Test

**James L. Flowers, M.D., Princeton  
Review, Theodore Silver, M.D.**



## **Physical Science Chapter Practice Test:**

## **Physical Science Chapter Practice Test** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Physical Science Chapter Practice Test**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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