

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 6 Practice Test

Camilla Rothe



Physical Science Chapter 6 Practice Test:

The book delves into Physical Science Chapter 6 Practice Test. Physical Science Chapter 6 Practice Test is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Chapter 6 Practice Test, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science Chapter 6 Practice Test
 - Chapter 2: Essential Elements of Physical Science Chapter 6 Practice Test
 - Chapter 3: Physical Science Chapter 6 Practice Test in Everyday Life
 - Chapter 4: Physical Science Chapter 6 Practice Test in Specific Contexts
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6. In chapter 5, the author will draw a conclusion about Physical Science Chapter 6 Practice Test. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Chapter 6 Practice Test.

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