Unit 07: Momentum and Collisions

Author: Saylor Foundation

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1. Unit 07: Momentum and Collisions Questions

4.1.1. How is Newton's 2nd law expressed in terms of momentum?

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How is Newton's 2nd law expressed in terms of momentum?

Please choose only one answer:

- Force is equal to the average momentum of an object divided by the time interval over which the average is taken.
- Force is equal to the average momentum of an object times the time interval over which the average is taken.
- Force is equal to the change in momentum of an object divided by the time interval over which the change occurred.
- Force is equal to the change in momentum of an object times the time interval over which the change occurred.

4.1.2. If a 10 gram ball with a speed of 24 cm/s collides with a 20 gram b...

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If a 10 gram ball with a speed of 24 cm/s collides with a 20 gram ball at rest and they stick together, then what will be their speed after the collision?

Please choose only one answer:

- 12 cm/s
- 10cm/s
- 8 cm/s
- 6 cm/s

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4.1.3. Which of the following best describes the relationship between impu...

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Which of the following best describes the relationship between impulse and momentum?

Please choose only one answer:

- Impulse is equal to the change in momentum occurring in a small interval of time.
- Impulse is equal to the change in momentum divided by the small interval of time over which the change occurred.
- Impulse is equal to the change in kinetic energy divided by the small interval of time over which the change occurred.
- Impulse is the product of the change in momentum and the time interval over which the change occurs.

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Which of the following statements regarding a totally inelastic collision is true?

Please choose only one answer:

- All of the kinetic energy is lost.
- The maximum amount of energy consistent with conservation of momentum is lost.
- The colliding bodies stick together after the collision.
- Both B and C

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4.1.5. Which of the following statements regarding rocket propulsion is true?

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Which of the following statements regarding rocket propulsion is true?

Please choose only one answer:

- Rocket propulsion is produced by the rockets pushing against the air.
- Rocket propulsion is the result of conservation of linear momentum.
- Both statements are true.
- Neither statement is true.

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4.1.6. What is the definition of momentum?

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What is the definition of momentum?

Please choose only one answer:

- Momentum is one-half the mass of an object times its speed squared.
- Momentum is the product of the mass of an object and its velocity.
- Momentum is the product of the mass of an object and its acceleration.
- Momentum is the mass of an object two times the speed.

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