

Momentum In-Class Problems

1. A 1 kg mass moving at 1 m/s has a totally inelastic collision with a 0.7 kg mass. What is the speed of the resulting combined mass after the collision? What is the ratio of final kinetic energy to the initial total kinetic energy for the collision? <http://fareday.physics.utoronto.ca/PyS/Harrison/Flash/ClassMechanics/AirTrack/AirTrack.html>

$$\begin{aligned}
 m_1 v_1 &= (m_1 + m_2) v_f \\
 v_f &= \underline{0.59 \text{ m/s}} \\
 KE_i &= \frac{1}{2} m_1 v_1^2 = \frac{1}{2} (1)(1)^2 = 0.5 \text{ J} \\
 KE_f &= \frac{1}{2} (m_1 + m_2) v_f^2 = \frac{1}{2} (1.7)(.59)^2 = 0.3 \text{ J} \\
 KE_f/KE_i &= .3/.5 = \underline{0.6}
 \end{aligned}$$

2. A cart of mass 1 kg moving at a speed of 0.5 m/s collides elastically with a cart of mass 0.5 kg at rest. The speed of the second mass after the collision is 0.667 m/sec. What is the speed of the 1 kg mass after the collision? Compare the total momentum and total kinetic energy before and after the collision. <http://www.walter.fendt.de/chp14e/collision.htm>

$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= m_1 v_1' + m_2 v_2' \\
 (1)(0.5) + 0 &= (1)v_1' + (0.5)(0.667) \\
 v_1' &= \underline{0.167 \text{ m/s}} \\
 KE \text{ is same: } \frac{1}{2}(1)(0.5)^2 &= \frac{1}{2}(1)(0.167)^2 + \frac{1}{2}(0.5)(0.667)^2 = \underline{0.125 \text{ J}}
 \end{aligned}$$

3. A 10 gram bullet is shot from a 500 gram gun at a speed of 230 m/sec. Find the speed and kinetic energy of the bullet and the gun. Assume that the momentum and energy of the escaping gases is negligible.

$$\begin{aligned}
 v_b &= \underline{4.6 \text{ m/s}} & m_b v_b &= m_g v_g \\
 KE_b &= \underline{265 \text{ J}} & (.500)v_g &= (.010)(230) \\
 KE_g &= \underline{5.3 \text{ J}} & KE_b &= \frac{1}{2}(.010)(230)^2 \\
 & & KE_g &= \frac{1}{2}(.500)(4.6)^2
 \end{aligned}$$

4. Two carts with masses of 4 kg and 3 kg move toward each other on a frictionless track with speeds of 5.0 m/s and 4.0 m/s respectively. The carts stick together after the colliding head on. Find the final speed of the carts.

$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= (m_1 + m_2) v' \\
 (4)(5.0) + (3)(-4.0) &= (4 + 3)v' \\
 v' &= \underline{1.14 \text{ m/s}}
 \end{aligned}$$

5. An average player hitting a forehand shot on a ball approaching at 30 m/s can deliver an impulse of 5.13 kg-m/s on a tennis ball of mass 57g. With what speed would the ball leave the racket in this situation?

$$\begin{aligned}
 J &= \Delta p = mv' - mv \\
 5.13 &= (.057)v' - (.057)(-30) \\
 v' &= \underline{60 \text{ m/s}}
 \end{aligned}$$

Physics Classroom Answer Key Momentum

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Table of Contents Physics Classroom Answer Key Momentum

1. Understanding the eBook Physics Classroom Answer Key Momentum
 - The Rise of Digital Reading Physics Classroom Answer Key Momentum
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Classroom Answer Key Momentum
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics Classroom Answer Key Momentum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Classroom Answer Key Momentum
 - Personalized Recommendations
 - Physics Classroom Answer Key Momentum User Reviews and Ratings
 - Physics Classroom Answer Key Momentum and Bestseller Lists
5. Accessing Physics Classroom Answer Key Momentum Free and Paid eBooks

- Physics Classroom Answer Key Momentum Public Domain eBooks
- Physics Classroom Answer Key Momentum eBook Subscription Services
- Physics Classroom Answer Key Momentum Budget-Friendly Options
- 6. Navigating Physics Classroom Answer Key Momentum eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics Classroom Answer Key Momentum Compatibility with Devices
 - Physics Classroom Answer Key Momentum Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Classroom Answer Key Momentum
 - Highlighting and Note-Taking Physics Classroom Answer Key Momentum
 - Interactive Elements Physics Classroom Answer Key Momentum
- 8. Staying Engaged with Physics Classroom Answer Key Momentum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Classroom Answer Key Momentum
- 9. Balancing eBooks and Physical Books Physics Classroom Answer Key Momentum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Classroom Answer Key Momentum
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics Classroom Answer Key Momentum
 - Setting Reading Goals Physics Classroom Answer Key Momentum
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics Classroom Answer Key Momentum
 - Fact-Checking eBook Content of Physics Classroom Answer Key Momentum
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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