#### 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://www.brysics.uteronto.ca/PVS/Harrison/Flash/Class/Mechanics/ArTrack/ArTrack/html

 $m_1w_1 = (m_1 + m_2)w$   $vf = 0.59 \frac{m_2}{m_1}$   $KE_1 = Wm_1w_1^2 = W_1(1)^2 = 0.5 J$   $KE_2 = W_1(m_1 + m_2)W_2^2 = W_1(1.7)(.59)^2 = 0.3 J$  $KE_3/KE_1 = .37.5 = 0.6$ 

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.

may: \*  $m_0 v_0 = m_1 v_1' + m_0 v_2'$   $(1)(0.5) + 0 = (1)v_1' + (0.5)(0.667)$   $v_1' = 0.167 \text{ m/s}$ KE is same:  $N_1(1)(0.5)^2 = N_2(1)(0.167)^2 + N_2(0.5)(0.667)^2 = 0.125 \text{ J}$ 

 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 gasses is negligible.

 $v_0 = 4.6 \text{ m/s}$   $m_0v_0 = m_0v_0$   $(.500)v_0 = (.010)(230)$   $KE_0 = 265.4 \quad KE_0 = 36(.010)(230)^2$   $KE_0 = 5.3.4 \quad KE_0 = 36(.500)(4.6)^2$ 

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.

 $m_1v_1 + m_2v_2 = (m_1 + m_2)v'$  (4)(5.0) + (3)(-4.0) = (4 + 3)v'v' = 1.14 m/s

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?

J = Δp = mv' - mv 5.13 = (.057)v' - (.057)(-30) v' = 60 m/s

# **Physics Classroom Answer Key Momentum**

**L** Cohen

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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
  - o 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
  - o 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

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