

Holt Physics

Problem 6G**ELASTIC COLLISIONS****PROBLEM**

American juggler Bruce Sarafian juggled 11 identical balls at one time in 1992. Each ball had a mass of 0.20 kg. Suppose two balls have an elastic head-on collision during the act. The first ball moves away from the collision with a velocity of 3.0 m/s to the right, and the second ball moves away with a velocity of 4.0 m/s to the left. If the first ball's velocity before the collision is 4.0 m/s to the left, what is the velocity of the second ball before the collision?

SOLUTION**1. DEFINE****Given:**

$$m_1 = m_2 = 0.20 \text{ kg}$$

$$v_{1,i} = \text{initial velocity of ball 1} = 4.0 \text{ m/s to the left} \\ = -4.0 \text{ m/s to the right}$$

$$v_{1,f} = \text{final velocity of ball 1} = 3.0 \text{ m/s to the right}$$

$$v_{2,f} = \text{final velocity of ball 2} = 4.0 \text{ m/s to the left} \\ = -4.0 \text{ m/s to the right}$$

Unknown:

$$v_{2,i} = \text{initial velocity of ball 2} = ?$$

2. PLAN

Choose the equation(s) or situation: Use the equation for the conservation of momentum to determine the initial velocity of ball 2. Because both balls have identical masses, the mass terms cancel.

$$m_1 v_{1,i} + m_2 v_{2,i} = m_1 v_{1,f} + m_2 v_{2,f}$$

$$v_{1,i} + v_{2,i} = v_{1,f} + v_{2,f}$$

Rearrange the equation(s) to isolate the unknown(s):

$$v_{2,i} = v_{1,f} + v_{2,f} - v_{1,i}$$

3. CALCULATE

Substitute the values into the equation(s) and solve:

$$v_{2,i} = 3.0 \text{ m/s} - 4.0 \text{ m/s} - (-4.0 \text{ m/s})$$

$$v_{2,i} = \boxed{3.0 \text{ m/s to the right}}$$

4. EVALUATE

Confirm your answer by making sure that kinetic energy is also conserved.

$$\frac{1}{2} m_1 v_{1,i}^2 + \frac{1}{2} m_2 v_{2,i}^2 = \frac{1}{2} m_1 v_{1,f}^2 + \frac{1}{2} m_2 v_{2,f}^2$$

$$v_{1,i}^2 + v_{2,i}^2 = v_{1,f}^2 + v_{2,f}^2$$

$$(-4.0 \text{ m/s})^2 + (3.0 \text{ m/s})^2 = (3.0 \text{ m/s})^2 + (-4.0 \text{ m/s})^2$$

$$16 \text{ m}^2/\text{s}^2 + 9.0 \text{ m}^2/\text{s}^2 = 9.0 \text{ m}^2/\text{s}^2 + 16 \text{ m}^2/\text{s}^2$$

$$25 \text{ m}^2/\text{s}^2 = 25 \text{ m}^2/\text{s}^2$$

ADDITIONAL PRACTICE

- The moon's orbital speed around Earth is $3,680 \times 10^3 \text{ km/h}$. Suppose the moon suffers a perfectly elastic collision with a comet whose mass is 50.0 percent that of the moon. (A partially inelastic collision would be a much

Answers Holt Physics Problem 6g

Yicheng Fang

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Table of Contents Answers Holt Physics Problem 6g

1. Understanding the eBook Answers Holt Physics Problem 6g
 - The Rise of Digital Reading Answers Holt Physics Problem 6g
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Holt Physics Problem 6g
 - 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 Answers Holt Physics Problem 6g
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Holt Physics Problem 6g
 - Personalized Recommendations
 - Answers Holt Physics Problem 6g User Reviews and Ratings
 - Answers Holt Physics Problem 6g and Bestseller Lists

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