

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

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