

Holt Physics

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

American juggler Bruce Sanfilippo 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: $m_1 = m_2 = 0.20 \text{ kg}$
 $v_{1,i} = \text{initial velocity of ball 1} = 4.0 \text{ m/s to the left}$
 $= -4.0 \text{ m/s to the right}$
 $v_{1,f} = \text{final velocity of ball 1} = 3.0 \text{ m/s to the right}$
 $v_{2,i} = \text{final velocity of ball 2} = 4.0 \text{ m/s to the left}$
 $= -4.0 \text{ m/s to the right}$

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

2. PLAN

Choose the equation(s) or situation(s). 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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Huangqi Zhang

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