

## Chapter 8

### Conservation of Linear Momentum

#### Conceptual Problems

**1 • [SSM]** Show that if two particles have equal kinetic energies, the magnitudes of their momenta are equal only if they have the same mass.

**Determine the Concept** The kinetic energy of a particle, as a function of its momentum, is given by  $K = p^2 / 2m$ .

The kinetic energy of the particles is given by:

$$K_1 = \frac{p_1^2}{2m_1} \text{ and } K_2 = \frac{p_2^2}{2m_2}$$

Equate these kinetic energies to obtain:

$$\frac{p_1^2}{2m_1} = \frac{p_2^2}{2m_2}$$

Because the magnitudes of their momenta are equal:

$$\frac{1}{m_1} = \frac{1}{m_2} \text{ and } m_1 = \boxed{m_2}$$

**2 •** Particle A has twice the (magnitude) momentum and four times the kinetic energy of particle B. A also has four times the kinetic energy of B. What is the ratio of their masses (the mass of particle A to that of particle B)? Explain your reasoning.

**Determine the Concept** The kinetic energy of a particle, as a function of its momentum, is given by  $K = p^2 / 2m$ .

The kinetic energy of particle A is given by:

$$K_A = \frac{p_A^2}{2m_A} \Rightarrow m_A = \frac{p_A^2}{2K_A}$$

The kinetic energy of particle B is given by:

$$K_B = \frac{p_B^2}{2m_B} \Rightarrow m_B = \frac{p_B^2}{2K_B}$$

Divide the first of these equations by the second and simplify to obtain:

$$\frac{m_A}{m_B} = \frac{\frac{p_A^2}{2K_A}}{\frac{p_B^2}{2K_B}} = \frac{K_B p_A^2}{K_A p_B^2} = \frac{K_B}{K_A} \left( \frac{p_A}{p_B} \right)^2$$

## Chapter 8 Momentum Answers

**R. Byron Bird, Warren E. Stewart, Edwin  
N. Lightfoot**



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