

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://fareday.physics.utoronto.ca/PyS/Harrison/Flash/ClassMechanics/AirTrack/AirTrack.html>

$$\begin{aligned}
 m_1 v_1 &= (m_1 + m_2) v_f \\
 v_f &= \underline{0.59 \text{ m/s}} \\
 KE_i &= \frac{1}{2} m_1 v_1^2 = \frac{1}{2} (1)(1)^2 = 0.5 \text{ J} \\
 KE_f &= \frac{1}{2} (m_1 + m_2) v_f^2 = \frac{1}{2} (1.7)(.59)^2 = 0.3 \text{ J} \\
 KE_f/KE_i &= .3/.5 = \underline{0.6}
 \end{aligned}$$

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. <http://www.walter.fendt.de/gph/14e/collision.htm>

$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= m_1 v_1' + m_2 v_2' \\
 (1)(0.5) + 0 &= (1)v_1' + (0.5)(0.667) \\
 v_1' &= \underline{0.167 \text{ m/s}} \\
 KE \text{ is same: } \frac{1}{2}(1)(0.5)^2 &= \frac{1}{2}(1)(0.167)^2 + \frac{1}{2}(0.5)(0.667)^2 = \underline{0.125 \text{ J}}
 \end{aligned}$$

3. 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 gases is negligible.

$$\begin{aligned}
 v_b &= \underline{4.6 \text{ m/s}} & m_b v_b &= m_g v_g \\
 KE_b &= \underline{265 \text{ J}} & (.500)v_g &= (.010)(230) \\
 KE_g &= \underline{5.3 \text{ J}} & KE_b &= \frac{1}{2}(.010)(230)^2 \\
 & & KE_g &= \frac{1}{2}(.500)(4.6)^2
 \end{aligned}$$

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.

$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= (m_1 + m_2) v' \\
 (4)(5.0) + (3)(-4.0) &= (4 + 3)v' \\
 v' &= \underline{1.14 \text{ m/s}}
 \end{aligned}$$

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?

$$\begin{aligned}
 J &= \Delta p = mv' - mv \\
 5.13 &= (.057)v' - (.057)(-30) \\
 v' &= \underline{60 \text{ m/s}}
 \end{aligned}$$

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