

6. A bullet of mass 0.65 kg is fired from a 4.0-kg gun with a speed of  $5.0 \times 10^3$  m/s. What is the recoil velocity of the gun?

Explosion

$$0 = m_b v_b + m_g v_g$$

$$0.65 \text{ kg} (5.0 \times 10^3 \text{ m/s}) + 4.0 \text{ kg} v_g = 0$$

$$v_{\text{gun}} = \frac{-325 \text{ N}\cdot\text{s}}{4.0 \text{ kg}} = \boxed{-81 \text{ m/s}} \text{ opposite direction to gun}$$

Explosion

7. A 62-kg child is sitting on a wagon full of bricks that has a mass of 150 kg. In order to move the wagon without touching the ground, the child throws two bricks each of mass 3.0 kg in the direction opposite to the direction the wagon is to go. How fast will the wagon move if the bricks are thrown at 2.0 m/s?

$$m_c = 62 \text{ kg}$$

$$m_{\text{wagon + bricks}} = 150 \text{ kg}$$

$$m_{\text{bricks}} = 6.0 \text{ kg}$$

$$0 = m_b v_b + m_{\text{wagon}} v_{\text{wagon}} = (3.0 \text{ kg} + 3.0 \text{ kg})(-2.0 \text{ m/s}) + (62 \text{ kg} + 150 \text{ kg} - 6.0 \text{ kg})v$$

$$v = \frac{12 \text{ N}\cdot\text{s}}{206 \text{ kg}} = \boxed{+0.058 \text{ m/s}} \text{ opposite direction that bricks move}$$

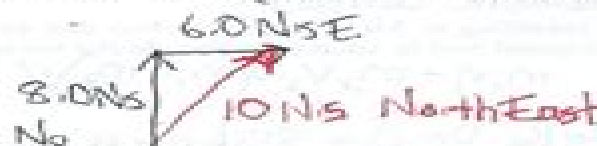
Explosion

8. An object explodes and a 2.0-kg piece moves north at 4.0 m/s and a 4.0-kg piece moves east at 1.5 m/sec. What is the momentum of the third piece? What is the mass of the third piece if it moves at a speed of 4.0 m/s?

$$0 = m_1 v_1 + m_2 v_2 + m_3 v_3$$

$$\text{Piece 1} + \text{Piece 2} = 2 \text{ kg } 4.0 \text{ m/s N} + 4.0 \text{ kg } 1.5 \text{ m/s E} = 8.0 \text{ N}\cdot\text{s N} + 6.0 \text{ N}\cdot\text{s E}$$

9. A ball collides with another ball at rest. After the collision, the 1.0-kg ball moves away at an angle of  $60.0^\circ$  with a velocity of 2.0 m/s. The 0.50-kg ball rolls at an angle of  $135^\circ$  at 3.0 m/s. What was the momentum of the first ball before the collision?



$$p_3 + (p_1 + p_2) = 0$$

$$p_3 = 10 \text{ N}\cdot\text{s SouthWest}$$

$$10 \text{ N}\cdot\text{s} = mv$$

$$\text{3rd Piece } m = \frac{10 \text{ N}\cdot\text{s}}{4 \text{ m/s}} = \boxed{2.5 \text{ kg}}$$



# All Physics Unit 4 Vector Answers

**Dr. Jitendra Singh**



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