

Unit IX: Worksheet 3

1. A ball of mass 3.0 kg, moving at 2 m/s eastward, strikes head-on a ball of mass 1.0 kg that is moving at 2 m/s westward. The balls stick together after the impact. What are the magnitude and direction of the velocity of the combined mass after the collision?

$$m_1v_1 + m_2v_2 = m_1v_{1f} + m_2v_{2f}$$

$$(3.0\text{kg})(+2\text{m/s}) + (1.0\text{kg})(-2\text{m/s}) = (3.0\text{kg} + 1.0\text{kg})v_f$$

$$(+6\text{kg m/s} + -2\text{kg m/s}) / (4.0\text{kg}) = v_f = +1\text{m/s}$$

2. One way of measuring the muzzle velocity of a bullet is to fire it horizontally into a massive block of wood placed on a cart. Assuming no friction, we then measure the velocity with which the wood containing the bullet and cart begin to move. In one experiment the bullet had a mass of 50. g and the wood and its cart had a mass of 10. kg. After the shot, the cart, wood, and bullet moved at a constant speed, traveling 0.80 m in 0.40 s. From this data determine the original speed of the bullet.

$$m_1v_1 + m_2v_2 = m_1v_{1f} + m_2v_{2f}$$

$$(0.050\text{kg})(v) + (10.\text{kg})(0\text{m/s}) = (10.050\text{kg})(.80\text{m}/.40\text{s})$$

$$v = (20.1\text{kg m/s})/(0.050\text{kg}) \quad v = 402 \text{ m/s}$$

3. A raft of mass 180 kg carries two swimmers of mass 50. kg and 80. kg. The raft is initially floating at rest. The two swimmers simultaneously dive off opposite ends of the raft, each with a horizontal velocity of 3 m/s. With what velocity and in what direction does the raft start to move?

$$m_1v_1 + m_2v_2 + m_3v_3 = m_1v_{1f} + m_2v_{2f} + m_3v_{3f}$$

$$(50.\text{kg})(0\text{m/s}) + (180\text{kg})(0\text{m/s}) + (80\text{kg})(0\text{m/s}) = (50\text{kg})(-3\text{m/s}) + (180\text{kg})(v_2) + (80\text{kg})(+3\text{m/s})$$

$$0 = -150\text{kg m/s} + (180\text{kg})(v_2) + (+240 \text{kg m/s}) \quad (-90\text{kg m/s})/(180\text{kg}) = v_2$$

$$v_2 = -0.50\text{m/s}$$

4. Discuss the following in terms of impulse and momentum:
- Why are padded dashboards safer in automobiles? (increase the time during impact)
 - Why are nylon ropes, which stretch considerably under stress, favored by mountain climbers? (during acceleration to a stop, the stretch increases the time for the event, thus reducing the magnitude of the acceleration and force on climber)
 - Why is it preferred that railroad cars be loosely coupled with slack between cars? (allows the cars to navigate curves and offers a linking system that does not require materials that are impossibly strong. Flexible with changes in weather)

Physics Modeling Workshop Unit 3 Test Answers

A Loxley



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