

Assessment

Chapter Test A

Teacher Notes and Answers Momentum and Collisions

CHAPTER TEST A (GENERAL)

1. c
2. a
3. b
4. c
5. a.
Given
 $p_1 = 4.0 \text{ kg} \cdot \text{m/s}$
 $p_2 = -4.0 \text{ kg} \cdot \text{m/s}$
Solution
 $\Delta p = p_2 - p_1 = (-4.0 \text{ kg} \cdot \text{m/s}) - 4.0 \text{ kg} \cdot \text{m/s} = -8.0 \text{ kg} \cdot \text{m/s}$
6. c
7. b
8. b
9. a
10. d
11. d
12. a
13. d
14. c
15. The bullet's momentum decreases as its speed decreases.
16. The student has the least momentum when designing the opening door.
17. A small force can produce a large change in momentum if the force acts on an object for a long period of time.
18. zero
19. They have the same momentum.
 $(0.80 \times 10^3 \text{ kg} \cdot \text{m/s})$
Given
 $m_1 = 6000 \text{ kg}$
 $v_1 = 3.00 \text{ m/s}$
 $m_2 = 1500 \text{ kg}$
 $v_2 = 12.0 \text{ m/s}$
Solution
 $p_1 = m_1 v_1 = (6000 \text{ kg})(3.00 \text{ m/s})$
 $= 1.80 \times 10^4 \text{ kg} \cdot \text{m/s}$
 $p_2 = m_2 v_2 = (1500 \text{ kg})(12.0 \text{ m/s})$
 $= 1.80 \times 10^4 \text{ kg} \cdot \text{m/s}$
 $p_1 = p_2$
20. $-1.2 \text{ kg} \cdot \text{m/s}$
Given
 $m = 0.15 \text{ kg}$
 $v_1 = 5.0 \text{ m/s}$
 $v_2 = -3.0 \text{ m/s}$
Solution
 $\Delta p = m(v_2 - v_1) =$
 $(0.15 \text{ kg})(-3.0 \text{ m/s} - 5.0 \text{ m/s}) =$
 $-1.2 \text{ kg} \cdot \text{m/s}$

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