

5 Work and Energy

POWER

- | | |
|------|------|
| 1. d | 5. c |
| 2. d | 6. a |
| 3. c | 7. b |
| 4. c | 8. d |
9. Power measures the amount of energy that is transferred from one object to another or transformed to other forms of energy in a given time interval.

10. 220 kW

Given

$$F = 29 \text{ kN} = 2.9 \times 10^4 \text{ N}$$

$$v = 7.5 \text{ m/s}$$

Solution

$$P = Fv = (2.9 \times 10^4 \text{ N})(7.5 \text{ m/s}) = 2.2 \times 10^5 \text{ W} = \boxed{220 \text{ kW}}$$

6 Momentum and Collisions

MOMENTUM AND IMPULSE

- | | |
|------|------|
| 1. b | 5. b |
| 2. c | 6. c |
| 3. a | 7. c |
| 4. c | 8. d |
9. Impulse is the product of the force acting on an object and the time interval in which the force acts on an object. The impulse-momentum theorem states that the impulse on an object is equal to the change in the object's momentum.

10. $9.0 \times 10^7 \text{ kg}\cdot\text{m/s}$

Given

$$m = 1.0 \times 10^4 \text{ kg}$$

$$v_i = 1.2 \times 10^3 \text{ m/s}$$

$$F = -25 \text{ kN} = 2.5 \times 10^4 \text{ N}$$

$$\Delta t = 2.0 \text{ min} = 120 \text{ s}$$

Solution

$$p_i = mv_i =$$

$$(1.0 \times 10^4 \text{ kg})(1.2 \times 10^3 \text{ m/s}) = 1.2 \times 10^7 \text{ kg}\cdot\text{m/s}$$

$$F\Delta t = \Delta p = p_f - p_i$$

$$p_f = F\Delta t + p_i$$

$$p_f = (-2.5 \times 10^4 \text{ N})(120 \text{ s}) + (1.2 \times 10^7 \text{ kg}\cdot\text{m/s}) =$$

$$\boxed{9.0 \times 10^7 \text{ kg}\cdot\text{m/s}}$$

6 Momentum and Collisions

CONSERVATION OF MOMENTUM

- | | |
|------|------|
| 1. d | 5. d |
| 2. c | 6. c |
| 3. b | 7. d |
| 4. d | 8. c |
9. The magnitude of the momentum of the slower ball increases, while the magnitude of the momentum of the faster ball decreases by the same amount. Both balls reverse direction in the collision. The total momentum of the system does not change.

10. 1.9 m/s

Given

$$m_1 = 55 \text{ kg}$$

$$v_{1,i} = 2.0 \text{ m/s}$$

$$m_2 = 2.0 \text{ kg}$$

$$v_{2,i} = 0 \text{ m/s}$$

$$v_{1,f} = v_{2,f}$$

Solution

$$m_1 v_{1,i} + m_2 v_{2,i} = m_1 v_{1,f} + m_2 v_{2,f}$$

$$m_1 v_{1,i} = m_1 v_{1,f} + m_2 v_{1,f}$$

$$m_1 v_{1,i} = (m_1 + m_2) v_{1,f}$$

$$v_{1,f} = \frac{m_1 v_{1,i}}{(m_1 + m_2)}$$

$$v_{1,f} = \frac{(55 \text{ kg})(2.0 \text{ m/s})}{(55 \text{ kg} + 2.0 \text{ kg})} = \boxed{1.9 \text{ m/s}}$$

6 Momentum and Collisions

ELASTIC AND INELASTIC COLLISIONS

- | | |
|------|------|
| 1. d | 5. d |
| 2. b | 6. a |
| 3. a | 7. b |
| 4. b | 8. d |
9. An inelastic collision is any collision in which some kinetic energy is converted to other forms of energy so that the total kinetic energy is not conserved. A perfectly inelastic collision is a special case in which the objects in the collision stick together and move as a single object after the collision.

10. 1.2 m/s to the right

Given

$$m_1 = 0.16 \text{ kg}$$

$$v_{1,i} = 1.2 \text{ m/s}$$

$$m_2 = 0.16 \text{ kg}$$

$$v_{2,i} = -0.85 \text{ m/s}$$

$$v_{1,f} = -0.85 \text{ m/s}$$

One Dimensional Momentum And Collision Worksheet Answers

**John D. Cutnell, Kenneth W.
Johnson, David Young, Shane Stadler**

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