

## Chapter 7: Linear Momentum and Collisions

### Answers and Solutions

1. **Picture the Problem:** A baseball pitcher gives the ball momentum when he throws it.

**Strategy:** Multiply the mass and the speed to calculate the magnitude of the momentum.

**Solution:** Calculate the momentum:  $p = mv = (0.142 \text{ kg})(45.1 \text{ m/s}) = \boxed{6.40 \text{ kg} \cdot \text{m/s}}$

**Insight:** This momentum will change slightly due to the effects of gravity, as we will shortly learn, but not by much because the pitch will cross the plate less than half a second after leaving the pitcher's hand!

2. **Picture the Problem:** A dog has momentum as it races to meet its owner.

**Strategy:** Use the definition of momentum to find the dog's speed.

**Solution:** Solve the definition of momentum for  $v$ :  $p = mv \Rightarrow v = \frac{p}{m} = \frac{37 \text{ kg} \cdot \text{m/s}}{12 \text{ kg}} = \boxed{3.1 \text{ m/s}}$

**Insight:** The dog's speed is equivalent to 6.9 mi/hr. Either the dog isn't "racing" after all, or it's a really small dog for whom 6.9 mi/hr is a fast run!

3. **Picture the Problem:** The speeds and masses of four objects are given.

**Strategy:** Multiply the mass and the speed of each object to find its momentum, and then use the results to rank the momenta of the four objects.

**Solution:** 1. Calculate the momenta:

$$p_A = m_A v_A = (10 \text{ kg})(10 \text{ m/s}) = 100 \text{ kg} \cdot \text{m/s}$$

$$p_B = m_B v_B = (15 \text{ kg})(4 \text{ m/s}) = 60 \text{ kg} \cdot \text{m/s}$$

$$p_C = m_C v_C = (5 \text{ kg})(20 \text{ m/s}) = 100 \text{ kg} \cdot \text{m/s}$$

$$p_D = m_D v_D = (60 \text{ kg})(3 \text{ m/s}) = 180 \text{ kg} \cdot \text{m/s}$$

2. Compare the momenta to arrive at the ranking:  $\boxed{p_B < p_A = p_C < p_D}$

**Insight:** The momenta of objects A and C could be different even though their magnitudes are the same because momentum is a vector, and the directions of these momentum vectors weren't specified.

4. **Picture the Problem:** This is a follow-up question to Guided Example 7.2. At a city park a person throws some bread into a duck pond. Two 4.0-kg ducks and a 7.6-kg goose paddle rapidly toward the bread from opposite directions. The ducks swim at 1.1 m/s and the goose swims with a speed of 1.3 m/s.

**Strategy:** The total momentum of the three birds points to the right, in the direction the goose is swimming. That means the momentum of the goose is larger in magnitude than that of the two ducks combined. Use the definition of momentum to find the reduced speed at which the goose must swim in order to make the total momentum equal to zero.

**Solution:** 1. The momentum of the goose is larger in magnitude than the two ducks combined. We conclude that the speed of the goose should be Decreased in order to make the total momentum of the three birds equal to zero.

2. Set the total momentum equal to zero:

$$\begin{aligned}\vec{p}_{\text{total}} &= \vec{p}_A + \vec{p}_B + \vec{p}_C \\ 0 &= -2m_d v_d + m_g v_g\end{aligned}$$

3. Solve for the speed of the goose:

$$\frac{2m_d v_d}{m_g} = v_g = \frac{2(4.0 \text{ kg})(1.1 \text{ m/s})}{7.6 \text{ kg}} = \boxed{1.2 \text{ m/s}}$$

**Insight:** The goose need only slow down by a small amount because the total momentum of the system was already close to zero.

# Mastering Physics Solutions Chapter 7 Linear Momentum

**A Gutmann**



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