

## Holt Physics

# Problem 6B

**FORCE AND MOMENTUM**

PRACTICE PROBLEMS

4. A student with a mass of 55 kg rides a bicycle with a mass of 11 kg. A net force of 12.5 N to the right accelerates the bicycle and student during a time interval of 2.0 s. What is the final velocity of the bicycle and student? Assume the student and bicycle are initially at rest.

SOLUTION

Given:  $m_s = 55 \text{ kg}$   
 $m_b = 11 \text{ kg}$   
 $F = 12.5 \text{ N to the right}$   
 $\Delta t = 2.0 \text{ s}$   
 $v_i = 0 \text{ m/s}$

Unknown:  $v_f = ?$ 

Use the impulse-momentum theorem to solve for  $v_f$ .

$$F\Delta t = \Delta p = m_f v_f - m_i v_i$$

$$v_f = \frac{F\Delta t + m_i v_i}{m_f}$$
$$v_f = \frac{m_f v_i + m_b v_b}{m_f}$$
$$v_f = \frac{m_f v_i + m_b v_i + m_b v_b}{m_f}$$
$$v_f = \frac{m_f v_i + m_b (v_i + v_b)}{m_f}$$
$$v_f = \frac{m_f v_i + m_b v_f}{m_f}$$
$$v_f = \frac{m_f v_i}{m_f}$$
$$v_f = \boxed{5.7 \text{ m/s to the right}}$$

**ADDITIONAL PRACTICE**

1. A net force of 15.0 N to the right pushes a 2.0 kg book across a table. If the force acts on the book for 2.0 s, what is the book's final velocity? Assume the book to be initially at rest.

2. A 60.0 g ping-pong ball is whacked straight by a student. If the student exerts a net force of  $-1.5 \text{ N}$  over a period of 0.20 s to bring the ball to a stop, what is the ball's final speed?

3. A child riding a sled is pulled down a snowy hill by a force of 75.0 N. If the child and sled have a combined mass of 55 kg, what is their speed after 3.0 s? Assume the child and sled are initially at rest.

4. A billiard ball with a mass of 0.150 kg and a velocity of 0.800 m/s to the right is deflected by the cushioned edge of the billiard table. The cushion exerts a force of 3.50 N to the left for 0.0750 s. What is the ball's final velocity?

# Holt Physics Problem 6b Workbook Answers

**Leonard Thompson Troland**

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