

## Holt Physics

**Problem 6B****FORCE AND MOMENTUM****PROBLEM**

A student with a mass of 55 kg rides a bicycle with a mass of 11 kg. A net force of 125 N to the east accelerates the bicycle and student during a time interval of 3.0 s. What is the final velocity of the bicycle and student? Assume the student and bicycle are initially at rest.

**SOLUTION**

Given:

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

$$m_b = 11 \text{ kg}$$

$$F = 125 \text{ N to the east}$$

$$\Delta t = 3.0 \text{ s}$$

$$v_i = 0 \text{ m/s}$$

Unknown:

$$v_f = ?$$

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

$$F\Delta t = \Delta p = mv_f - mv_i$$

$$v_f = \frac{F\Delta t + mv_i}{m}$$

$$m = m_s + m_b = 55 \text{ kg} + 11 \text{ kg} = 66 \text{ kg}$$

$$v_f = \frac{(125 \text{ N})(3.0 \text{ s}) - (66 \text{ kg})(0 \text{ m/s})}{66 \text{ kg}}$$

$$v_f = \frac{(125 \text{ N})(3.0 \text{ s})}{66 \text{ kg}}$$

$$v_f = \boxed{5.7 \text{ m/s to the east}}$$

**ADDITIONAL PRACTICE**

1. A net force of 10.0 N to the right pushes a 3.0 kg book across a table. If the force acts on the book for 3.0 s, what is the book's final velocity? Assume the book is initially at rest.
2. A 60.0 g egg dropped from a window is caught by a student. If the student exerts a net force of  $-1.5 \text{ N}$  over a period of 0.25 s to bring the egg to a stop, what is the egg's initial speed?
3. A child riding a sled is pulled down a snowy hill by a force of 75 N. If the child and sled have a combined mass of 55 kg, what is their speed after 7.5 s? Assume the child and sled are initially at rest.
4. A billiard ball with a mass of 0.185 kg and a velocity of 8.800 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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**Holt Physics** Raymond A. Serway,2002      **Holt Physics** ,2001      **Whitaker's Cumulative Book List** ,1970      **The Cumulative Book Index** ,1922      **Children's Books in Print, 2007** ,2006      The Publishers Weekly ,1896      **The Publishers' Trade List Annual** ,1886      Books in Print Supplement ,2002      **Forthcoming Books** Rose Arny,2003-04  
Children's Books in Print R R Bowker Publishing,Bowker,1999-12      *New England Journal of Education* ,1897  
**Scientific American** ,1912      The Journal of Education ,1893      The New International Year Book ,1918      The United States Catalog ,1928      **Books in Print** ,1961      Current Literature ,1966      *American Book Publishing Record* ,2003      *Applied Mechanics Reviews* ,1963      *The Present Status of Visual Science* Leonard Thompson Troland,1922

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