

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 5.0 s, what is the book's final velocity? Assume the book to be 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 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 0.195 kg and a velocity of 0.850 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 Appendix Problem Answers

Guillaume Favre



Holt Physics Appendix Problem Answers:

Decoding **Holt Physics Appendix Problem Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Holt Physics Appendix Problem Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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