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

 $m_b = 11 \text{ kg}$
 $F = 125 \text{ N to the cast}$
 $\Delta t = 3.0 \text{ s}$
 $\mathbf{v_i} = 0 \text{ cm/s}$
Unknown: $\mathbf{v_i} = ?$

Use the impulse-momentum theorem to solve for v_f .

$$\mathbf{F}\Delta t = \Delta \mathbf{p} = m\mathbf{v}_1 - m\mathbf{v}_1$$

$$\mathbf{v}_1 = \frac{\mathbf{F}\Delta t + m\mathbf{v}_1}{m}$$

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

$$\mathbf{v}_1 = \frac{(125 \text{ N})(3.0 \text{ s}) - (66 \text{ kg})(0 \text{ m/s})}{66 \text{ kg}}$$

$$\mathbf{v}_1 = \frac{(125 \text{ N})(3.0 \text{ s})}{66 \text{ kg}}$$

$$\mathbf{v}_2 = \frac{(125 \text{ N})(3.0 \text{ s})}{66 \text{ kg}}$$

ADDITIONAL PRACTICE

- 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?

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RJ Alexander

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inspection inspection criteria for all api connections is as outlined in api rp 5a5 ensure the complete thread area has no tears gouges or raised metal black crested threads within the complete thread area must not exceed 25 of the circumference of two 2 threads complete thread length is indicated in api rp 5b1

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