

Question:

A 20.0 kg cannon attached to a cart with frictionless wheels contains a 5.0 kg cannon ball, and is initially moving to the right at 10 m/s. When the cannon is fired, the cannon ball moves in the positive- x direction while the cannon comes to a halt. What is the velocity of the cannon ball?

- +50 m/s
- +100 m/s
- +200 m/s
- +500 m/s
- 100 m/s

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Answer:

The correct answer is *a*. This is a conservation of momentum problem, and the cannon and the ball have the same total momentum before and after the cannon is fired.

Using the conservation of momentum equation:

$$\begin{aligned}
 m_{\text{cannon}} v_{\text{cannon}} + m_{\text{ball}} v_{\text{ball}} &= m_{\text{cannon}} v'_{\text{cannon}} + m_{\text{ball}} v'_{\text{ball}} \\
 (20\text{kg})(10\text{m/s}) + (5\text{kg})(10\text{m/s}) &= (20\text{kg})(0) + (5\text{kg})v'_{\text{ball}} \\
 250\text{kg} \cdot \text{m/s} &= 0 + (5\text{kg})v'_{\text{ball}}
 \end{aligned}$$

Rearrange:

$$v'_{\text{ball}} = \frac{250\text{kg} \cdot \text{m/s}}{5\text{kg}} = +50\text{m/s}$$

You can think of this kind of problem as a “perfectly inelastic collision in reverse.” In a perfectly inelastic collision, two objects with different velocities collide with each other and stick together so that they have one common final velocity. This is the same thing, but backwards: the two objects have a common initial velocity, and then fly apart to have different velocities at the end.

Momentum Problems Conceptual Physics

David Baud



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