

Momentum Notes

Momentum - motion inertia \rightarrow velocity

Symbol p Equation $p = m \cdot v$ Unit $\text{kg} \cdot \text{m/s}$

Problem Set #1: (1-2)

①

$m = 2500 \text{ kg}$

a) $v_1 = 18 \text{ m/s}$
 b) $v_2 = 0$

a) $p_1 = ?$
 b) $p_2 = ?$

$p = m \cdot v$

a) $p_1 = 2500 \text{ kg} \cdot 18 \text{ m/s}$
 $= 45000 \text{ kg} \cdot \text{m/s}$
 b) $p_2 = 0 \text{ kg} \cdot \text{m/s}$

②

$m_1 = 0.13 \text{ kg}$
 $v = 36 \text{ m/s}$

a) $p_1 = ?$
 b) $m_2 = 7.3 \text{ kg}$
 $v_2 = ?$
 $p_1 = p_2$

a) $p = m \cdot v$
 $p_1 = 468$
 $\text{kg} \cdot \text{m/s}$
 $v_2 = \frac{p_1}{m_2}$

$v_2 = \frac{468 \text{ kg} \cdot \text{m/s}}{7.3 \text{ kg}} = 0.64 \text{ s}$

Impulse Equation:

$\frac{F \cdot t}{\text{Impulse}} = \frac{\Delta m v}{\text{change in momentum}}$

An impulse is required to change the momentum of an object.
 A change in momentum creates an impulse.

A golfer follows through on a swing to increase the ball's velocity and make it travel farther.

$F t = m \Delta v$

Following through keeps the club head on the ball for a longer period of time.
 Since time and velocity are directly proportional, increasing time of contact increases velocity.

Answer using words and the impulse equation:

Why does a batter stop the bat when bunting?

To decrease the time on contact and decrease the velocity of the ball so it won't travel so far.

Physics Note Taking Episode 1001 Answers

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