

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.

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