

Momentum Notes

Momentum - motion inertia \rightarrow velocity

Symbol p

Equation $p = m \cdot v$
 \downarrow
 mass

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

 $v_2 = \frac{4.68 \text{ kg} \cdot \text{m/s}}{7.3 \text{ kg}} = 0.64 \text{ s}$

Impulse Equation: $F \cdot t$ = $\Delta m v$
Impulse 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.

Note Taking Guide Episode 901 Physics

M Lipman



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