

# 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)  $m_2 = 7.3 \text{ kg}$

$v_2 = ?$

$p_1 = p_2$

a)  $p = m \cdot v$

$p_1 = 468$

$\text{kg} \cdot \text{m/s}$

$v_2 = \frac{p_1}{m_2}$

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

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 601 Answers Physics

**Michal Rosen-Zvi**



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