

Name Key

### Impulse HW

Momentum (P) $P=mv$	Impulse (J) $J=F_{\text{avg}} \cdot t$	Impulse-Momentum Theorem $J=\Delta P$
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- 1) Jose Quintana of the White Sox pitches Starlin Castro a fastball in the 9<sup>th</sup> inning of a game. The 0.15kg baseball is initially thrown with a velocity of 42m/s. Castro swings his 0.8kg bat towards the ball with a velocity of 32m/s. After the collision the bat follows through with a velocity of 17m/s.
- Calculate the baseball's velocity after the collision
  - Describe the meaning of impulse
  - Calculate the impulse of the bat
  - Calculate the impulse of the ball
  - If the impact occurred for 0.004s calculate the average force on the bat during the collision. How does this compare to the average force the ball feels during the collision?
  - If the average person has a mass of 70kg then how many people would have to stand on the baseball to create the same force?

a. Before After

ball  $m_a = 0.15 \text{ kg}$   $v_a = -42 \text{ m/s}$   $P_a = -6.3 \text{ kg} \cdot \text{m/s}$   $m_a = 0.15 \text{ kg}$   $v_a = 38 \text{ m/s}$   $P_a = 5.7 \text{ kg} \cdot \text{m/s}$

bat  $m_b = 0.8 \text{ kg}$   $v_b = 32 \text{ m/s}$   $P_b = 25.6 \text{ kg} \cdot \text{m/s}$   $m_b = 0.8 \text{ kg}$   $v_b = 17 \text{ m/s}$   $P_b = 13.6 \text{ kg} \cdot \text{m/s}$

total = 19.3 kg·m/s      total = 19.3 kg·m/s

- a. The ball's velocity is 38 m/s
- b. Impulse is the change in momentum of a single object

c.  $\Delta P = P_{\text{after}} - P_{\text{before}} = 13.6 \text{ kg} \cdot \text{m/s} - 25.6 \text{ kg} \cdot \text{m/s} = -12 \text{ kg} \cdot \text{m/s}$

d. +12 kg·m/s

e.  $J = F \cdot t$   
 $12 = F \cdot 0.004$   
 $F = 3,000 \text{ N}$

f.  $F_g = m \cdot a_g$   
 $F_g = 686$   
 $3000 / 686 = 4.4$   
 people.



# Honors Physics Bcrs Answers

**Kovalcin**



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