

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

$v_2 = \frac{468 \text{ kg} \cdot \text{m/s}}{7.3 \text{ kg}} = 64 \text{ s}$

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.

Physics Note Taking Episode 1001 Answers

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Table of Contents Physics Note Taking Episode 1001 Answers

1. Understanding the eBook Physics Note Taking Episode 1001 Answers
 - The Rise of Digital Reading Physics Note Taking Episode 1001 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Note Taking Episode 1001 Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Note Taking Episode 1001 Answers
 - Personalized Recommendations
 - eBook User Reviews and Ratings
 - eBook and Bestseller Lists
5. Accessing Physics Note Taking Episode 1001 Answers Free and Paid eBooks
 - Public Domain eBooks
 - eBook Subscription Services
 - Budget-Friendly Options
6. Navigating eBook Formats
 - ePub, PDF, MOBI, and More
 - eBook Compatibility with Devices
 - Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of eBooks
 - Highlighting and Note-Taking eBooks
 - Interactive Elements eBooks

8. Staying Engaged with Physics Note Taking Episode 1001 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Note Taking Episode 1001 Answers
9. Balancing eBooks and Physical Books Physics Note Taking Episode 1001 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Note Taking Episode 1001 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics Note Taking Episode 1001 Answers
 - Setting Reading Goals Physics Note Taking Episode 1001 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Note Taking Episode 1001 Answers
 - Fact-Checking eBook Content of Physics Note Taking Episode 1001 Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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