

IMPULSE, MOMENTUM, COLLISION
WORD PROBLEMS

A 10kg block rest on a horizontal frictionless surface. A constant force of 20N is applied for 5 seconds. What is the impulse acting on the block? What is the change in momentum of the block? What is the final speed of the block?

$m_{\text{block}} = 10 \text{ kg}$
 $v_i = 0 \text{ m/s}$
 $F = 20 \text{ N}$
 $t = 5 \text{ s}$

a. Impulse

$I = F \Delta t$
 $I = 20 (5)$
 $I = 100 \text{ N} \cdot \text{s}$

b. Momentum

Since $F \Delta t = \Delta p$
 $p = 100 \text{ kg} \cdot \text{m/s}$

$c. F \Delta t = m (v_f - v_i)$
 $100 = 10 (v_f - 0)$
 $10 = v_f t$
 $v_f = 10 \text{ m/s}$

Calculate the impulse for each situation. (a) A constant force of 100N acts on a block for 10 seconds. (b) A variable force that increases from 0N to 100N at a constant rate for 10 seconds. (c) A variable force that increases from 50N to 100N at a constant rate for 10 seconds.

$a. F = 100 \text{ N} \quad t = 10 \text{ s}$
 $I = F \Delta t$
 $I = 100 (10)$
 $I = 1000 \text{ N} \cdot \text{s}$

$b. F_A = 0 \text{ N} \rightarrow 100 \text{ N} \quad t = 10$
 $I = \frac{1}{2} [F_0 + F_f] (t)$
 $I = \frac{1}{2} (0 + 100) (10)$
 $I = 50 (10)$
 $I = 500 \text{ N} \cdot \text{s}$

$c. F_A = 50 \text{ N} \rightarrow 100 \text{ N} \quad t = 10 \text{ s}$
 $I = \frac{1}{2} (50 + 100) (10)$
 $I = 75 (10)$
 $I = 750 \text{ N} \cdot \text{s}$

1. What is the momentum of a 250 kg object moving at 12 m/s to east?

Given:
 $m = 250 \text{ kg}$
 $v = 12 \text{ m/s}$
 Find:
 momentum

$p = m \Delta v$
 $p = (250)(12)$
 $p = 3000$

Answer: 3000 kg · m/s

2. A truck is moving at a speed of 20 m/s to the left. If the movement of the truck produces a momentum of $-3.0 \times 10^5 \text{ N} \cdot \text{s}$, what is the mass of the truck?

Given:
 $v = -20 \text{ m/s}$
 $p = -3.0 \times 10^5 \text{ N} \cdot \text{s}$
 Find:
 mass

$p = m \Delta v$
 $-3 \times 10^5 = m (-20)$
 $\frac{-300000}{-20} = m$
 $15000 = m$

Answer: 15000 kg

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Table of Contents Collision Word Problem And Answers Soundmetals

1. Understanding the eBook Collision Word Problem And Answers Soundmetals
 - The Rise of Digital Reading Collision Word Problem And Answers Soundmetals
 - Advantages of eBooks Over Traditional Books
2. Identifying Collision Word Problem And Answers Soundmetals
 - 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 Collision Word Problem And Answers Soundmetals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Collision Word Problem And Answers Soundmetals
 - Personalized Recommendations
 - Collision Word Problem And Answers Soundmetals User Reviews and Ratings

- Collision Word Problem And Answers Soundmetals and Bestseller Lists
- 5. Accessing Collision Word Problem And Answers Soundmetals Free and Paid eBooks
 - Collision Word Problem And Answers Soundmetals Public Domain eBooks
 - Collision Word Problem And Answers Soundmetals eBook Subscription Services
 - Collision Word Problem And Answers Soundmetals Budget-Friendly Options
- 6. Navigating Collision Word Problem And Answers Soundmetals eBook Formats
 - ePub, PDF, MOBI, and More
 - Collision Word Problem And Answers Soundmetals Compatibility with Devices
 - Collision Word Problem And Answers Soundmetals Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Collision Word Problem And Answers Soundmetals
 - Highlighting and Note-Taking Collision Word Problem And Answers Soundmetals
 - Interactive Elements Collision Word Problem And Answers Soundmetals
- 8. Staying Engaged with Collision Word Problem And Answers Soundmetals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Collision Word Problem And Answers Soundmetals
- 9. Balancing eBooks and Physical Books Collision Word Problem And Answers Soundmetals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Collision Word Problem And Answers Soundmetals
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Collision Word Problem And Answers Soundmetals
 - Setting Reading Goals Collision Word Problem And Answers Soundmetals
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Collision Word Problem And Answers Soundmetals
 - Fact-Checking eBook Content of Collision Word Problem And Answers Soundmetals
 - 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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