

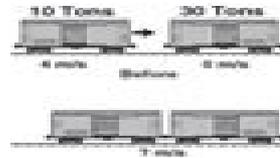
Worksheet: Conservation of Momentum

$p_{\text{before}} = p_{\text{after}}$

net momentum before = net momentum after

$$(m_1 v_1 + m_2 v_2)_{\text{before}} = (m_{\text{total}} v)_{\text{after}}$$

1. When these two freight cars of different mass collide and couple, what will be their resultant velocity?



$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= m_{\text{total}} \cdot v_{\text{net}} \\
 (10 \text{ tons} \cdot 4 \frac{\text{m}}{\text{s}}) + (30 \text{ tons} \cdot 0 \frac{\text{m}}{\text{s}}) &= (40 \text{ tons}) (v_{\text{net}}) \\
 40 \frac{\text{ton} \cdot \text{m}}{\text{s}} + 0 \frac{\text{ton} \cdot \text{m}}{\text{s}} &= (40 \text{ tons}) (v_{\text{net}}) \\
 \frac{40 \text{ ton} \cdot \text{m}}{40 \text{ ton}} &= \frac{40 \text{ tons} (v_{\text{net}})}{40 \text{ ton}} \\
 v_{\text{net}} &= 1 \frac{\text{m}}{\text{s}}
 \end{aligned}$$

2. A 2 kg blob of putty moving at 4 m/s slams into a 6 kg blob of putty at rest. What is the speed of the two stuck-together blobs immediately after colliding?

$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= m_{\text{total}} \cdot v_{\text{net}} \\
 (2 \text{ kg}) (4 \frac{\text{m}}{\text{s}}) + (6 \text{ kg}) (0 \frac{\text{m}}{\text{s}}) &= (8 \text{ kg}) (v_{\text{net}}) \\
 8 \frac{\text{kg} \cdot \text{m}}{\text{s}} + 0 \frac{\text{kg} \cdot \text{m}}{\text{s}} &= (8 \text{ kg}) (v_{\text{net}}) \\
 \frac{8 \text{ kg} \cdot \text{m}}{8 \text{ kg}} &= \frac{(8 \text{ kg}) (v_{\text{net}})}{8 \text{ kg}} \\
 v_{\text{net}} &= 1 \frac{\text{m}}{\text{s}}
 \end{aligned}$$

3. A 100 kg football player runs at 8 m/s and plows into an 80 kg referee standing on the field causing the referee and the player stick together and fly forward. What would the new velocity be?

$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= m_{\text{total}} \cdot v_{\text{net}} \\
 (100 \text{ kg}) (8 \frac{\text{m}}{\text{s}}) + (80 \text{ kg}) (0 \frac{\text{m}}{\text{s}}) &= (180 \text{ kg}) (v_{\text{net}}) \\
 800 \frac{\text{kg} \cdot \text{m}}{\text{s}} + 0 \frac{\text{kg} \cdot \text{m}}{\text{s}} &= (180 \text{ kg}) (v_{\text{net}}) \\
 \frac{800 \text{ kg} \cdot \text{m}}{180 \text{ kg}} &= \frac{(180 \text{ kg}) (v_{\text{net}})}{180 \text{ kg}} \\
 v_{\text{net}} &= 4.4 \frac{\text{m}}{\text{s}}
 \end{aligned}$$

# Chapter 8 Momentum Answers

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## Chapter 8 Momentum Answers:

The book delves into Chapter 8 Momentum Answers. Chapter 8 Momentum Answers is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Chapter 8 Momentum Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Chapter 8 Momentum Answers
  - Chapter 2: Essential Elements of Chapter 8 Momentum Answers
  - Chapter 3: Chapter 8 Momentum Answers in Everyday Life
  - Chapter 4: Chapter 8 Momentum Answers in Specific Contexts
  - Chapter 5: Conclusion
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## **Table of Contents Chapter 8 Momentum Answers**

1. Understanding the eBook Chapter 8 Momentum Answers
  - The Rise of Digital Reading Chapter 8 Momentum Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 8 Momentum 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 Chapter 8 Momentum Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 8 Momentum Answers
  - Personalized Recommendations
  - Chapter 8 Momentum Answers User Reviews and Ratings
  - Chapter 8 Momentum Answers and Bestseller Lists
5. Accessing Chapter 8 Momentum Answers Free and Paid eBooks
  - Chapter 8 Momentum Answers Public Domain eBooks
  - Chapter 8 Momentum Answers eBook Subscription Services
  - Chapter 8 Momentum Answers Budget-Friendly Options
6. Navigating Chapter 8 Momentum Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 8 Momentum Answers Compatibility with Devices
  - Chapter 8 Momentum Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 8 Momentum Answers
  - Highlighting and Note-Taking Chapter 8 Momentum Answers
  - Interactive Elements Chapter 8 Momentum Answers
8. Staying Engaged with Chapter 8 Momentum Answers

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 8 Momentum Answers
9. Balancing eBooks and Physical Books Chapter 8 Momentum Answers
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 8 Momentum Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chapter 8 Momentum Answers
- Setting Reading Goals Chapter 8 Momentum Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 8 Momentum Answers
- Fact-Checking eBook Content of Chapter 8 Momentum 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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