

Chapter 1: Introduction to Physics

Answers to Even-Numbered Conceptual Questions

2. The quantity $T + d$ does not make sense physically, because it adds together variables that have different physical dimensions. The quantity d/T does make sense, however; it could represent the distance d traveled by an object in the time T .
4. (a) 10^7 s; (b) 10,000 s; (c) 1 s; (d) 10^{17} s; (e) 10^8 s to 10^9 s.

Solutions to Problems and Conceptual Exercises

1. **Picture the Problem:** This is simply a units conversion problem.

Strategy: Multiply the given number by conversion factors to obtain the desired units.

Solution: (a) Convert the units:
$$\$114,000,000 \times \frac{1 \text{ gigadollars}}{1 \times 10^9 \text{ dollars}} = \boxed{0.114 \text{ gigadollars}}$$

(b) Convert the units again:
$$\$114,000,000 \times \frac{1 \text{ teradollars}}{1 \times 10^{12} \text{ dollars}} = \boxed{1.14 \times 10^{-4} \text{ teradollars}}$$

Insight: The inside back cover of the textbook has a helpful chart of the metric prefixes.

2. **Picture the Problem:** This is simply a units conversion problem.

Strategy: Multiply the given number by conversion factors to obtain the desired units.

Solution: (a) Convert the units:
$$70 \mu\text{m} \times \frac{1.0 \times 10^{-6} \text{ m}}{\mu\text{m}} = \boxed{7.0 \times 10^{-5} \text{ m}}$$

(b) Convert the units again:
$$70 \mu\text{m} \times \frac{1.0 \times 10^{-6} \text{ m}}{\mu\text{m}} \times \frac{1 \text{ km}}{1000 \text{ m}} = \boxed{7.0 \times 10^{-8} \text{ km}}$$

Insight: The inside back cover of the textbook has a helpful chart of the metric prefixes.

3. **Picture the Problem:** This is simply a units conversion problem.

Strategy: Multiply the given number by conversion factors to obtain the desired units.

Solution: Convert the units:
$$0.3 \frac{\text{Gm}}{\text{s}} \times \frac{1 \times 10^9 \text{ m}}{\text{Gm}} = \boxed{3 \times 10^8 \text{ m/s}}$$

Insight: The inside back cover of the textbook has a helpful chart of the metric prefixes.

4. **Picture the Problem:** This is simply a units conversion problem.

Strategy: Multiply the given number by conversion factors to obtain the desired units.

Solution: Convert the units:
$$70.72 \frac{\text{teracalculation}}{\text{s}} \times \frac{1 \times 10^{12} \text{ calculations}}{\text{teracalculation}} \times \frac{1 \times 10^{-6} \text{ s}}{\mu\text{s}} = \boxed{7.072 \times 10^7 \text{ calculations}/\mu\text{s}}$$

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1. Understanding the eBook Answers James Walker Physics 4th
 - The Rise of Digital Reading Answers James Walker Physics 4th
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers James Walker Physics 4th
 - 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 Answers James Walker Physics 4th
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers James Walker Physics 4th
 - Personalized Recommendations
 - Answers James Walker Physics 4th User Reviews and Ratings
 - Answers James Walker Physics 4th and Bestseller Lists
5. Accessing Answers James Walker Physics 4th Free and Paid eBooks
 - Answers James Walker Physics 4th Public Domain eBooks

- Answers James Walker Physics 4th eBook Subscription Services
- Answers James Walker Physics 4th Budget-Friendly Options
- 6. Navigating Answers James Walker Physics 4th eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers James Walker Physics 4th Compatibility with Devices
 - Answers James Walker Physics 4th Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers James Walker Physics 4th
 - Highlighting and Note-Taking Answers James Walker Physics 4th
 - Interactive Elements Answers James Walker Physics 4th
- 8. Staying Engaged with Answers James Walker Physics 4th
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers James Walker Physics 4th
- 9. Balancing eBooks and Physical Books Answers James Walker Physics 4th
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers James Walker Physics 4th
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers James Walker Physics 4th
 - Setting Reading Goals Answers James Walker Physics 4th
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers James Walker Physics 4th
 - Fact-Checking eBook Content of Answers James Walker Physics 4th
 - 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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