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: $\$114,000,000 \times \dfrac{1 \text{ gigadollars}}{1 \times 10^9 \text{ dollars}} = \boxed{0.114 \text{ gigadollars}}$

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

   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: $70 \ \mu\text{m} \times \dfrac{1.0 \times 10^{-6} \text{ m}}{\mu\text{m}} = \boxed{7.0 \times 10^{-5} \text{ m}}$

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

   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: $0.3 \ \dfrac{\text{Gm}}{\text{s}} \times \dfrac{1 \times 10^9 \text{ m}}{\text{Gm}} = \boxed{3 \times 10^8 \text{ m/s}}$

   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: $70.72 \ \dfrac{\text{teracalculation}}{\text{s}} \times \dfrac{1 \times 10^{12} \text{ calculations}}{\text{teracalculation}} \times \dfrac{1 \times 10^{-6} \text{ s}}{\mu\text{s}}$

   $= \boxed{7.072 \times 10^7 \text{ calculations/}\mu\text{s}}$

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

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Terry C. Jones

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Table of Contents Walker Physics 4th Edition Chapter 32 Solutions

1. Understanding the eBook Walker Physics 4th Edition Chapter 32 Solutions
   - The Rise of Digital Reading Walker Physics 4th Edition Chapter 32 Solutions
   - Advantages of eBooks Over Traditional Books
2. Identifying Walker Physics 4th Edition Chapter 32 Solutions
   - 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 Walker Physics 4th Edition Chapter 32 Solutions
   - User-Friendly Interface
4. Exploring eBook Recommendations from Walker Physics 4th Edition Chapter 32 Solutions
   - Personalized Recommendations
   - Walker Physics 4th Edition Chapter 32 Solutions User Reviews and Ratings
   - Walker Physics 4th Edition Chapter 32 Solutions and Bestseller Lists

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