

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) 10^6 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:

$$70 \text{ } \mu\text{m} \times \frac{1.0 \times 10^{-6} \text{ m}}{1 \text{ } \mu\text{m}} = \boxed{7.0 \times 10^{-5} \text{ m}}$$

(b) Convert the units again:

$$70 \text{ } \mu\text{m} \times \frac{1.0 \times 10^{-6} \text{ m}}{1 \text{ } \mu\text{m}} \times \frac{1 \text{ km}}{1000 \text{ m}} = \boxed{7.0 \times 10^{-8} \text{ km}}$$

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:

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

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:

$$\begin{aligned} 70.72 \frac{\text{teracalculation}}{\text{s}} &\times \frac{1 \times 10^{12} \text{ calculations}}{1 \text{ teracalculation}} \times \frac{1 \times 10^{-6} \text{ s}}{1 \text{ } \mu\text{s}} \\ &= \boxed{7.072 \times 10^7 \text{ calculations/} \mu\text{s}} \end{aligned}$$

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

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