

1

Physics and Measurement

CHAPTER OUTLINE

- 1.1 Standards of Length, Mass, and Time
- 1.2 Matter and Model-Building
- 1.3 Density and Atomic Mass
- 1.4 Dimensional Analysis
- 1.5 Conversion of Units
- 1.6 Estimates and Order-of-Magnitude Calculations
- 1.7 Significant Figures

ANSWERS TO QUESTIONS

- Q1.1** Atomic clocks are based on electromagnetic waves which atoms emit. Also, pulsars are highly regular astronomical clocks.
- Q1.2** Density varies with temperature and pressure. It would be necessary to measure both mass and volume very accurately in order to use the density of water as a standard.
- Q1.3** People have different size hands. Defining the unit precisely would be cumbersome.
- Q1.4** (a) 0.3 millimeters (b) 30 micrometers (c) 7.2 kilograms
- Q1.5** (b) and (d). You cannot add or subtract quantities of different dimensions.
- Q1.6** A dimensionally correct equation need not be true. Example: 1 chimpanzee = 2 chimpanzee is dimensionally correct. If an equation is not dimensionally correct, it cannot be correct.
- Q1.7** If I were a runner, I might walk or run 10^7 miles per day. Since I am a college professor, I walk about 10^6 miles per day. I drive about 40 miles per day on weekdays and up to 200 miles per day on vacations.
- Q1.8** On February 7, 2001, I am 55 years and 29 days old.
- $$55 \text{ yr} \left(\frac{365.25 \text{ d}}{1 \text{ yr}} \right) + 29 \text{ d} = 20 \text{ } 128 \text{ d} \left(\frac{86 \text{ } 400 \text{ s}}{1 \text{ d}} \right) = 1.74 \times 10^6 \text{ s} \approx 10^6 \text{ s}.$$
- Many college students are just approaching 1 Gs.
- Q1.9** Zero digits. An order-of-magnitude calculation is accurate only within a factor of 10.
- Q1.10** The mass of the forty-six chapter textbook is on the order of 10^3 kg.
- Q1.11** With one datum known to one significant digit, we have 80 million yr $\approx$ 24 yr $\approx$ 80 million yr.

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