

## 1-4 Practice Problems

Solve each of the following problems as directed. Show all your work. Use the correct abbreviation for each unit.

- Convert 83 cm into meters.
- Convert 459 L into milliliters.
- Express 1123 pg in nanograms.
- Express  $0.032 \text{ m}^3$  in liters.
- Express 2.5 mm in micrometers.
- Which is the longer amount of time, 1351 ps or 1.2 ns? Explain your answer.
- Which is the larger pressure, 232.1 kPa or 125,487 Pa? Explain your answer.
- Which is the smaller mass, 285.0 cg or 23.78 dg? Explain your answer.
- Which is the shorter length, 175.6 mm or 38.4 cm? Explain your answer.
- Convert the following masses into grams.
  - 0.7824 mg
  - 345,000 ng
  - 0.003 78 kg
  - 34,981  $\mu\text{g}$