

## Answers to practice problems in page 248

### Answers to Practice Problems I

- 93.311% Fe, 6.689% C
- 50.05% S, 49.95% O
- 35.00% N, 5.05% H, 59.96% O
- 35.41% Sr, 64.59% Br
  - 29.44% Ca, 23.55% S, 47.01% O
  - 31.83% Mg, 31.46% C, 36.70% N
  - 63.70% Pb, 14.77% C, 1.86% H, 19.67% O
- Both are 39.99% C, 6.73% H, and 53.28% O because, if you combine the hydrogen atoms in acetic acid, the empirical formulas are the same.
  - The percentage composition of the empirical formula is the same as that of the molecular formulas.

### Homework

GENERAL

**Additional Practice** Determine the percentage compositions of the following compounds:

- NaClO **Ans.** 30.88% Na, 47.62% Cl, 21.49% O
- H<sub>2</sub>SO<sub>3</sub> **Ans.** 2.46% H, 39.07% S, 58.47% O
- C<sub>2</sub>H<sub>5</sub>COOH **Ans.** 48.63% C, 8.18% H, 43.19% O

 Logical