

Conversion Factor Mix-Up

U7-9

Cross out the conversion factors that are invalid and cannot be used in a bridge.

$$\frac{6.02 \times 10^{23} \text{ g H}_2\text{O}}{1 \text{ mol H}_2\text{O}}$$

$$\frac{1 \text{ mol NaCl}}{6.02 \times 10^{23} \text{ formula units NaCl}}$$

$$\frac{6.02 \times 10^{23} \text{ atoms O}}{16.0 \text{ g O}}$$

$$\frac{1 \text{ atom C}}{1 \text{ mol C}}$$

$$\frac{6.02 \times 10^{23} \text{ atoms CH}_4}{1 \text{ mol CH}_4}$$

$$\frac{1 \text{ g CH}_4}{1 \text{ mol CH}_4}$$

$$\frac{6.02 \times 10^{24} \text{ molecules H}_2\text{O}}{1 \text{ mol H}_2\text{O}}$$

$$\frac{1 \text{ mol H}_2\text{O}}{16.0 \text{ g O}}$$

$$\frac{6.02 \times 10^{23} \text{ g H}_2\text{O}}{1 \text{ mol H}_2\text{O}}$$

$$\frac{18.0 \text{ g/mol H}_2\text{O}}{1 \text{ mol H}_2\text{O}}$$

$$\frac{1 \text{ g Al}}{27.0 \text{ mol Al}}$$

$$\frac{2 \text{ mol O}}{18.0 \text{ g H}_2\text{O}}$$

$$\frac{32.0 \text{ g CH}_4}{2 \text{ mol CH}_4}$$

$$\frac{16.0 \text{ g CH}_4}{2 \text{ mol CH}_4}$$

$$\frac{3 \text{ ions CaCl}_2}{1 \text{ mol CaCl}_2}$$

$$\frac{18.0 \text{ g H}_2\text{O}}{2.0 \text{ g H}}$$

$$\frac{1 \text{ mol C}}{12.0 \text{ g C}}$$

$$\frac{6.02 \times 10^{23} \text{ molecules H}_2\text{O}}{6.02 \times 10^{23} \text{ atoms O}}$$