

Conversion Factor Method

Convertables

length

$$\frac{12 \text{ in}}{1 \text{ ft}}$$

$$\frac{2.54 \text{ cm}}{1 \text{ in}}$$

$$\frac{10^{-2} \text{ m}}{1 \text{ cm}}$$

mass

$$\frac{1000 \text{ g}}{1 \text{ kg}}$$

$$\frac{453.6 \text{ g}}{1 \text{ lb}}$$

volume

$$\frac{1 \text{ cm}^3}{1 \text{ mL}}$$

$$\frac{10^{-3} \text{ L}}{1 \text{ mL}}$$

$$\frac{12.0 \text{ fl.oz.}}{355 \text{ mL}}$$

amount

$$\frac{6.022 \times 10^{23}}{1 \text{ mole}}$$

$$\frac{12.011 \text{ g C}}{1 \text{ mole C}}$$

$$\frac{1.008 \text{ g H}}{1 \text{ mole H}}$$

$$\frac{16.00 \text{ g O}}{1 \text{ mole O}}$$

$$\frac{6 \text{ moles C}}{1 \text{ mole C}_6\text{H}_{12}}$$