

6-1 Ratios

comparison of two quantities by division

$$\begin{array}{l} 3 \text{ to } 9 \quad 3:9 \quad \frac{3}{9} \\ 1 \text{ to } 3 \quad 1:3 \quad \frac{1}{3} \end{array} \text{ always reduce}$$

$$\begin{array}{l} 1.) \quad \frac{12}{18} = \frac{2}{3} \quad \frac{15}{100} = \frac{3}{20} \\ \frac{30}{3} = \frac{10}{1} \end{array}$$

Ratio
same unit (label)

$$8 \text{ oz} : 3 \text{ lbs}$$

$$16 \text{ oz} = 1 \text{ lb.}$$

$$\frac{8 \text{ oz}}{48 \text{ oz}} = \frac{1 \text{ oz}}{6 \text{ oz}}$$

$$\begin{array}{r} 16 \\ \times 3 \\ \hline 48 \text{ oz.} \end{array}$$

$$\frac{15 \text{ in}}{1 \text{ ft.}} = \frac{15 \text{ in}}{12 \text{ in}} = \frac{5 \text{ in}}{4 \text{ in.}}$$