

1/17/12 7.7 Changing Customary Units

P. 350

Length

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

$$1 \text{ yd} = 3 \text{ ft} = 36 \text{ in.}$$

$$1 \text{ mi} = 1760 \text{ yds} = \\ 5280 \text{ ft.}$$

Weight

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

$$1 \text{ T} = 2000 \text{ lbs.}$$

Capacity

$$1 \text{ c} = 8 \text{ fl. oz.}$$

$$1 \text{ pt.} = 2 \text{ c}$$

$$1 \text{ qt} = 2 \text{ pt.}$$

$$1 \text{ gal} = 4 \text{ qt.}$$

Changing Units Using multiplication

① $3\text{ft} + 7\text{in.}$

② $3\text{ft} \quad 36 + 7$

$\times 12$ in per foot

36 inches

length

③ 43in.

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

$1\text{yd} = 3\text{ft} = 36\text{in}$

$1\text{mi} = 1760\text{yd} = 5280\text{ft} = 63,360\text{in.}$

Changing Units by Dividing

$$\textcircled{1} \quad 35 \text{oz} \quad \frac{35}{16}$$

weight

$$\textcircled{2} \quad \begin{array}{r} 2 \text{ lbs} \\ 16 \overline{) 35} \\ \underline{-32} \\ 3 \end{array}$$

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

$$\text{oz.} \rightarrow 3$$

$$1 \text{ T} = 2000 \text{ lb} = 32,000 \text{ oz.}$$

$$\textcircled{3} \quad 2 \text{ lbs } 3 \text{ oz.}$$

26 fl. oz.

1 c = 8 fl. oz

$$\begin{array}{r} 3 \\ 8 \overline{) 26} \\ \underline{-24} \\ 2 \end{array}$$

$$= 3\frac{2}{8} = 3\frac{1}{4} \text{ c.}$$

$$2\frac{1}{4}\text{ft}$$

$$2\text{ft} = 24\text{ in.}$$

$$\frac{1}{4}\text{ft} = \frac{3\text{ in.}}{27\text{ in.}}$$

$$\frac{27}{36} = \frac{3}{4}\text{ yd.}$$

twenty seven

out of

thirty six

$$\begin{array}{r}
 3\text{ft } 2\text{in} \\
 + 1\text{ft } 11\text{in.} \\
 \hline
 \end{array}$$

$$4\text{ft. } 13\text{in.}$$



$$5\text{ft } 11\text{in.}$$

$$\begin{array}{r}
 14 \\
 2\text{ft } 2\text{in}
 \end{array}$$

$$- 1\text{ft } 11\text{in}$$

$$1\text{ft. } 3\text{in}$$

$$\begin{array}{r}
 19 \\
 1\text{lb } 3\text{oz}
 \end{array}$$

$$- 1\text{lb } 4\text{oz}$$

$$15\text{oz.}$$

In Class:

p. 352-353

#s 2-38 even.

HW: WS 7.7

#s 1-31 odd.

$$\textcircled{10} \quad 1\frac{1}{3} \text{ c} \rightarrow \underline{\quad} \text{ quarts}$$

$$1\frac{1}{3} \div 4$$

$$\frac{4}{3} \div \frac{4}{1} = \frac{4}{3} \times \frac{1}{4} = \frac{1}{3} \times \frac{1}{1} = \frac{1}{3} \text{ qt.}$$

capacity

$$1 \text{ pt} = \begin{array}{l} 1 \text{ c} = 8 \text{ fl oz} \\ 2 \text{ c} = 16 \text{ fl oz.} \end{array}$$

$$1 \text{ qt.} = 2 \text{ pt} = 4 \text{ c} = 32 \text{ fl. oz.}$$

$$1 \text{ gal} = 4 \text{ qt.} = 8 \text{ pt.} = 16 \text{ c} = 128 \text{ fl. oz.}$$

