

1. Abbreviate the following terms.

- a. Deciliter dl
- b. Kilogram kg
- c. Centimeter cm
- d. Microgram mcg (or μg)
- e. Grain gr
- f. Ounce (in apothecary form) ℥

2. Convert the following measurements into the desired units.

a. 350 ml = .35 L

$$\frac{350 \text{ ml}}{1} \cdot \frac{1 \text{ L}}{1000 \text{ ml}} = .35 \text{ L}$$

b. 7500 mcg = 7.5 mg

$$\frac{7500 \text{ mcg}}{1} \cdot \frac{1 \text{ mg}}{1000 \text{ mcg}} = 7.5 \text{ mg}$$

c. 0.04 m = 4 cm

$$\frac{.04 \text{ m}}{1} \cdot \frac{100 \text{ cm}}{1 \text{ m}} = 4 \text{ cm}$$

d. 140 mg/dl = 1400 mg/L

$$\frac{140 \text{ mg}}{1 \text{ dl}} \cdot \frac{10 \text{ dl}}{1 \text{ L}} = 1400 \text{ mg/L}$$

e. gr lx = none. N/A tsp

60 gr is dry weight, tsp. liquid  
no conversion

f. 16 c = 1 gal

$$\frac{16 \text{ c}}{1} \cdot \frac{1 \text{ qt}}{4 \text{ c}} \cdot \frac{1 \text{ gal}}{4 \text{ qt}} = 1 \text{ gal}$$

g. 1500 in = .02 =  $\frac{25}{1056}$  mi (you may round to 2 non-zero digits)

$$\frac{1500 \text{ in}}{1} \cdot \frac{1 \text{ ft}}{12 \text{ in}} \cdot \frac{1 \text{ mile}}{5280} = \frac{25}{1056} \text{ mi}$$

3. Using the information that 16 oz = 1 lbs., 2.2 lbs. = 1 kg and 2.54 cm = 1 in, perform the following conversions.

a. 48 oz = 3 lbs.

$$\frac{48 \text{ oz}}{1} \cdot \frac{1 \text{ lbs}}{16 \text{ oz}} = 3 \text{ lbs}$$

b. 50 kg = 110 lbs.

$$\frac{50 \text{ kg}}{1} \cdot \frac{2.2 \text{ lbs}}{1 \text{ kg}} = 110 \text{ lbs}$$

c. 60 in = 152.4 cm

$$\frac{60 \text{ in}}{1} \cdot \frac{2.54 \text{ cm}}{1 \text{ in}} = 152.4 \text{ cm}$$

d. 4'6" = 1.3716 m

$$\frac{4 \times 12 + 6 \text{ in}}{1} = \frac{54 \text{ in}}{1} \cdot \frac{2.54 \text{ cm}}{1 \text{ in}} \cdot \frac{1 \text{ m}}{100 \text{ cm}}$$

1.3716 m