

Margaret H. Rollins School of Nursing
Nursing 201 – Nursing Care of Special Populations
Equivalents and Formulas

1. Fill in the equivalents for the following:

- a) 1 mg = 1000 mcg
 b) 1 gm = 1000 mg
 c) 1 Kg = 1000 grams
 d) 1 Kg = 2.2 lbs
 e) 1 lb = 16 oz
 f) 1 liter = 1000 ml
 g) 1 tsp = 5 ml
 h) 3 teaspoons = 1 tablespoon(s)
 i) 1 tablespoon = 15 ml
 j) 1gm = 1 ml

2. If a child weighs 15 pounds, how many kilograms is this child? Round to the nearest tenth place.

$$\frac{1 \text{ kg}}{2.2 \text{ lb}} \times \frac{15}{x} = 6.8 \text{ kg}$$

3. A newborn weighs 3.825kg

a. How many grams is this? $3.825 \text{ kg} \cdot 1000 \text{ g} = 3,825 \text{ g}$

b. How many pounds and ounces is this?

$$\textcircled{1} \frac{3.825 \text{ kg}}{x \text{ lb}} \times \frac{1 \text{ kg}}{2.2 \text{ lb}} = 8.415 \text{ lbs} \quad \textcircled{2} \frac{0.415 \text{ lbs}}{x \text{ oz}} = \frac{16 \text{ oz}}{1 \text{ lb}} = 6.64 \text{ oz}$$

4. What is the formula for drug calculations? 8 lbs 6.64 oz

$$\frac{\text{desired}}{\text{have}} \times \text{quantity} = \text{dose}$$