

**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 = 1,000 mcg
- b) 1 gm = 1,000 mg
- c) 1 Kg = 1,000 grams
- d) 1 Kg = 2.2 lbs
- e) 1 lb = 16 oz
- f) 1 liter = 1,000 ml
- g) 1 tsp = 4.93 ml
- h) 3 teaspoons = 1 tablespoon(s)
- i) 1 tablespoon = 14.787 ml
- j) 1gm = 1 ml

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

$$2.2 \text{ lbs} = 1 \text{ kg}$$
$$15 \div 2.2 = 6.8 \text{ kg}$$

3. A newborn weighs 3.825kg

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

b. How many pounds and ounces is this?  
 $3.825 \text{ kg} \times 2.2 = 8 \text{ lbs } 4 \text{ oz}$

4. What is the formula for drug calculations?

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