

**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 = **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.

$$\frac{15}{2.2} = \mathbf{6.8 \text{ kg}}$$

3. A newborn weighs 3.825kg

a. How many grams is this?

$$\mathbf{3.825 \text{ kg} \times 1,000 = 3,825 \text{ grams}}$$

b. How many pounds and ounces is this

$$\mathbf{3.825 \text{ kg} \times 2.2 = 8.4 \text{ lbs}}$$

$$\mathbf{8.4 \text{ lbs} \times 16 = 134.4 \text{ oz}}$$

4. What is the formula for drug calculations?  $\frac{\text{Desired}}{\text{Have}} \times \mathbf{\text{Quantity (or volume) = Dose}}$