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.

$6.8\,kg = \frac{1\,kg}{2.2\,lb} \cdot 15\,lb$

3. A newborn weighs 3,825kg

a. How many grams is this? $\frac{1000\,g}{1\,kg} \cdot 3.825\,kg = 3{,}825\,g$

b. How many pounds and ounces is this?

8 lbs 7 oz

$3.825 \times 2.2 = 8.415$

$0.415 \times 16 = 6.64 \rightarrow 7$ oz

4. What is the formula for drug calculations?

$\frac{\text{Desired amount}}{\text{Amount on hand}} \times \text{quantity} = \text{Dose}$