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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.

$$15\,\frac{lbs * 1\,kg}{2.2\,lbs} = 6.8\,kg$$

3. A newborn weighs 3.825kg

   a. How many grams is this? $3.825\,\frac{kg * 1000\,gm}{1\,kg} = 3825\,gm$

   b. How many pounds and ounces is this?
   $3.825\,\frac{kg * 2.2\,lbs}{1\,kg} = 8.415\,lbs\,;\, 8\,lbs + 0.415\,\frac{lbs * 16\,oz}{1\,lb} = 8\,lbs\,,\, 6.64\,oz$

4. What is the formula for drug calculations?

$$\frac{Desired\,amount}{Amount\,on\,hand} * Quantity = Dose$$