

**BEEBE HEALTHCARE**  
**MARGARET H. ROLLINS SCHOOL OF NURSING**  
**NURSING 101 - FOUNDATIONS OF NURSING**

**EQUIVALENTS OF MEASUREMENT HANDOUT**

**\*\*Please use the table below to complete the equivalent conversions.** Also-you will need to know these measurements by memory as we use them in drug calculations!

Household, Apothecary, and Metric Measurement for Liquids		
Household	Apothecary	Metric
1 teaspoon	60 drops (gtt)	5 milliliters
1 tablespoon	--	15 milliliters
2 tablespoons	1 ounce	30 milliliters
1 cup	8 ounces	240 milliliters
1 pint	16 ounces	480 milliliters
1 quart	32 ounces	960 milliliters

Common Metric Equivalents		
Distance (Meters)	Weight (Grams)	Volume (Liters)
1 meter (m) = 100 centimeters (cm)	1 kilogram (kg) = 1,000 grams (g)	1 liter (L) = 1,000 milliliters (mL)
1 cm = 0.01 m	1 milligram (mg) = 0.001 g	1 mL = 0.001 L
1 millimeter (mm) = 0.001 m	1,000 mg = 1 g	1 mL = 1 cubic centimeter (cc)
2.54 cm = 1 inch	1 microgram (mcg) = 0.001 mg	
	1 kg = 2.2 pounds	

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**METRIC, APOTHECARY & HOUSEHOLD WORKSHEET**

**COMPLETE THE FOLLOWING CONVERSIONS:**

**A. METRIC**

1. 1000 mcg =   1   mg
2. 150 mcg =  .15  mg
3. 0.1 mg =  100  mcg
4. 0.5 mg =  500  mcg
5. 100 mg =  .1  gm
6. 1500 mg =  1.5  gm
7. 1 gm =  1,000  mg
8. 0.1 gm =  100  mg
9. 1000 gm =  1  kg
10. 100 gm =  .1  kg
11. 0.5 kg =  500  gm
12. 8 kg =  8,000  gm
13. 500 mL =  .5  L
14. 1.1 L =  1100  mL
15. 5,000 mL =  5  L
16. 20 lbs =  9.09  kg
17. 20 kg =  44  lbs
18. 5 in =  12.7  cm
19. 20 mm =  2  cm
20. 3 cm =  1.18  in

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**B. APOTHECARY**

1. 120 mL = 4 ounces
2. 2 ounces = 60 mL
3. 2 lbs = 32 ounces
4. 48 ounces = 3 lbs
5. 4 lbs = 64 ounces
6. 32 ounces = 2 lbs
7. 60 mL = 2 ounces
8. 6 ounces = 180 mL

**C. HOUSEHOLD**

1. 1 tsp = 5 mL
2. 10 mL = 2 tsp
3. 4 tbsp = 60 mL
4. 15 mL = 1 tbsp