

**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 = **0.15 mg**
3. 0.1 mg = **100 mcg**
4. 0.5 mg = **500 mcg**
5. 100 mg = **0.1 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 = **0.1 kg**
11. 0.5 kg = **500 gm**
12. 8 kg = **8,000 gm**
13. 500 mL = **0.5 L**
14. 1.1 L = **1,100 mL**
15. 5,000 mL = **5 L**
16. 20 lbs = **9.07 kg**
17. 20 kg = **44.1 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