

## Lab # 1 Answers

### Converting from English to IU Volume Measurement

#### Procedure

1.) For each of the four medications, figure out how many cc's or ml's must be measured out for proper dosage. Follow the exact directions given in the bottle. You will only measure the amounts. You will NOT ingest or take the medicine. You will discard by the method given by the classroom teacher.

- |   |                                |
|---|--------------------------------|
| a.) Over the Counter Flu Medicine         | <i>30 ml or 2 tbs</i>          |
| b.) Over the Counter Cough Medicine Syrup | <i>100mg/5ml or 20 mg/ml</i>   |
| c.) Over the Counter Anti-Diarrhea        | <i>30 ml</i>                   |
| d.) Over the Counter Antacid              | <i>5 to 15ml or 1 to 3 tsp</i> |

2.) Using a medium or large graduated cylinder (100ml) or (500 ml), figure out the number of ml's in:

- |                     |   |
|---------------------|---|
| a.) one cup         | <i>240 ml ( one cup equals 8 ounces <math>8 \times 30 = 240</math>)</i>             |
| b.) one pint        | <i>480 ml (16 ounces equals one pint.... <math>16 \times 30 = 480</math>)</i>       |
| c.) one quart       | <i>960 ml (4 cups equals one quart.... <math>4 \times 8 \times 30 = 960</math>)</i> |
| d.) one half gallon | <i>1,920 ml (64 oz equals half a gallon--- <math>64 \times 30 = 1,920</math>)</i>   |
| e.) one gallon      | <i>3,840ml (128 oz equals one gallon ... <math>128 \times 30 = 3,840</math>)</i>    |

3.) What is the total number of milliliters in a bottle of Vicks Nyguil

*300 ml (10 ounces....  $10 \times 30 = 300$ )*

4.) What is the total number of milliliters in a bottle of Cough Medicine?

*240 ml (8 ounces....  $8 \times 30 = 240$ )*

5.) What is the total number of milliliters in a bottle of Pepto-Bismol?

*480ml (16 ounces....  $16 \times 30 = 480$ )*

6.) What is the total number of milliliters in a bottle of Milk of Magnesia?

*240ml (8 ounces....  $8 \times 30 = 240$ )*

7.) How many milliliters in a cup of Pepsi?

*240ml (8 ounces....  $8 \times 30 = 240$ )*

8.) How many cups in an 8 Fl. OZ can of Pepsi?

*1 cup (8 fluid ounces equals one cup)*

*Teacher's Note: Go to timeline 12:30 to 15:38 of VSU Lecture One, Safety and Volume Measurement to help the student understand how much is one ounce and why medications are measured in cc's.*