

## Volume Comparison

### Materials:

- 1 Gladware container with lid
- 1 cup with measurements in the Standard (English/American) System
- 1 cup with measurements in the Metric system
- Container with water

### Abbreviations you need for this activity:

ml = milliliter      tsp = teaspoon      tbsp = tablespoon      fl. oz. = fluid ounce

Answer the following using your two cups. After each measurement, pour your water back into your water container and dry out your cups to make sure they are completely empty.

1) Examine your Standard System cup. Find the following unit conversions.

- a) 1 tbsp = \_\_\_\_\_ tsp      b) 1 fl oz = \_\_\_\_\_ tbsp      c) 1 fl oz = \_\_\_\_\_ tsp

2) Measure the following amounts in your metric cup. Then, pour it into your standard measurement cup. About how much do each of these metric amounts measure in standard amounts? (Remember to dry out your measuring cups in between measurements so your measurements don't become inaccurate.)

- a) 5 ml  $\approx$  \_\_\_\_\_ tsp      b)  $7\frac{1}{2}$  ml  $\approx$  \_\_\_\_\_ tsp      c) 10 ml  $\approx$  \_\_\_\_\_ tsp
- d) 15 ml  $\approx$  \_\_\_\_\_ tsp = \_\_\_\_\_ tbsp = \_\_\_\_\_ fl.oz.      e) 20 ml  $\approx$  \_\_\_\_\_ tsp
- f) 25 ml  $\approx$  \_\_\_\_\_ tsp      g) 30 ml  $\approx$  \_\_\_\_\_ tsp = \_\_\_\_\_ tbsp = \_\_\_\_\_ fl.oz.

3) Use the conversions you found previously to find the following.

- a) 1 ml  $\approx$  \_\_\_\_\_ tsp      b) 50 ml  $\approx$  \_\_\_\_\_ tbsp      c) 4 fl.oz = \_\_\_\_\_ tbsp
- d) 1 tsp = \_\_\_\_\_ tbsp      e) 5 tsp = \_\_\_\_\_ tbsp      e) 4 fl.oz  $\approx$  \_\_\_\_\_ ml
- f) 1 cup  $\approx$  \_\_\_\_\_ ml      g) 1 cup = \_\_\_\_\_ tbsp = \_\_\_\_\_ tsp