

# Measurement

**Directions: Solve each problem. Show your work in the space provided.**

1.) Tom wants to fill a fish tank with water. The tank measures 36 inches long, 24 inches wide, and 18 inches tall. How many liters of water does he need to fill the tank? (Hint: 1 liter = 1000 cubic centimeters)

2.) Sarah's backpack weighs 4.5 pounds. What is the mass of her backpack in grams? (Hint: 1 pound  $\approx$  453.592 grams)

3.) A juice bottle contains 2 quarts of juice. How many milliliters of juice does the bottle contain? (Hint: 1 quart  $\approx$  946.353 milliliters)

4.) A swimming pool measures 20 feet long, 10 feet wide, and 5 feet deep. How many gallons of water does the pool hold? (Hint: 1 gallon  $\approx$  3.78541 liters)

5.) Emma is baking a cake. She needs 500 milliliters of milk, but she only has a measuring cup that shows ounces. How many ounces of milk does she need? (Hint: 1 ounce  $\approx$  29.5735 milliliters)

6.) A cereal box weighs 16 ounces and contains 450 grams of cereal. How many kilograms of cereal does the box contain? (Hint: 1 kilogram = 1000 grams)

