# Unit 1 Review Problems I

# English to Metric conversions

1. **How many Kg are in 25 pounds?**
2. **How many liters are in 17.8 quarts?**
3. **How many inches are in 10 cm?**
4. **How many yards are in 16000 m?**
5. **How many gallons are in 3.57 liters?**
6. **How many pounds are in 250 Kg?**

**1 Inch = 2.540 cm 1 Kg = 2.2046 lb**

**1 Liter = 1.056 qts. 1 gal. = 4 qts.**

Metric Conversions

**100 g = \_\_\_\_ Kg 7.375 Km = \_\_\_ m**

**.0001 L = \_\_\_\_ ml 2,500,000 cm = \_\_m**

**55,070 Hm = \_\_\_ mm 5,500 cg = \_\_\_\_\_ g**

**1,000 g = \_\_\_\_Kg 10.7 Kl = \_\_\_\_\_ ml**

1. **If you measured the volume of 13.4 ml of a solution, and the actual volume was 4.5 ml, what was your percent error?**
2. **If the doctor measured your weight to be 289.9 Kg, when it is actually 95 Kg, what was his percent error?**
3. **If you calculated the density of a rock to 250.6 g/ml, when the actual density was 150.2 g/ml, what was your percent error?**
4. **If you measured the mass of some solid Mg to be 21.2 g, when the actual mass was 10 .89 g, what was the percent error of the measurement?**