Unit 0 Quiz Review

Name: _____

1a) Define quantitative data:

b) Describe your kitchen in a quantitative way:

2a) Define qualitative observation:

b) Describe your kitchen in a qualitative way:

3) Measuring

          Mass   Volume   Length   Substance

    A. A meter measures? _____
    B. A gram measures? _____
    C. What does a mole measure? _____
    D. What does a liter measure? _____

4) How do you convert?

    A. Cm to m: _____

    B. Mm to cm _____

    C. Decimeters to meters: _____

    D. liters to microliters: _____

    E. Grams to mega grams: _____

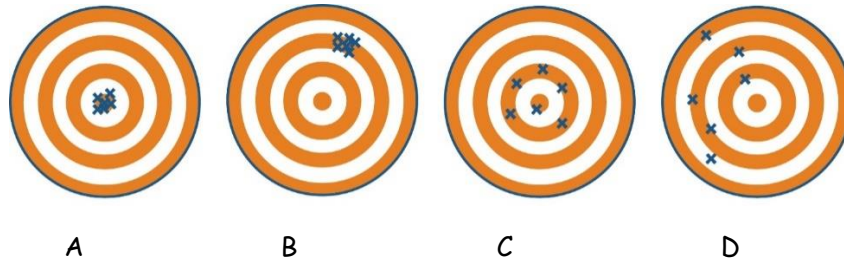   F. Kg to grams: _____

    G. Meters to decimeters: _____

5) Convert the following:

a) 160 cg = _____ kg

c) 0.00054 hs = _____ ds

b) 0.0078 m = _____ μm

d) 19000 mL = _____ _____ L

A   B   C   D

6) Which picture is:

    a. Accurate and not precise _____
    b. Precise but not accurate _____
    c. Neither accurate nor precise _____
    d. Both accurate and precise _____

7) What is density?

8a) What is the density of a substance that has a mass of 33.4 grams and a volume of 5 cm^3? Remember to include units!

_____

b) A substance has a density of 6.1 g/mL and a volume of 3.4 mL. What is the mass of the substance? Include units!

_____

c) A student performs an experiment with three unknown fluids and obtains the following measurements:

   Fluid A: m = 315 g   V = 200 mL

   Fluid B: m = 268 g, V = 112.5 mL

   Fluid C: m = 147.5 g, V = 375 mL

      Least Dense: _____

      Dense: _____

      Most Dense: _____

d) Fluids A-C in the above question are mixed and allowed to settle out. Which one will float on top, which will be in the middle, and which will sink to the bottom?