Quantitative Basic Review name:

1. The diameter of a carbon atom is 0.00000005644 micrometers. What is the best way to express this number?
2. What is the result of **adding** 6.5 x 105 and 2.5 x 103?
3. What is the result of **multiplying** 2.5 x 107 by 3.5 x 10-8  ?
4. What is the result of **subtracting** 5.5 x 104 and 8.5 x 105 ?
5. What is the result of **dividing** 6.7 x1024 by 9.4 x 10-14?
6. What is the **volume** of a salt crystal measuring 2.44 x 10-2 m by 1.4 x 10-3 by 8.4 x 10-3 m?
7. Using the volume above calculate the **density** of the salt crystals if the mass is 3.75x 10-5g?
8. What is the **mass** of 8.09x 105 µm3 of alcohol if the density of alcohol is 0.70g/mL?
9. What is the temperature of -36°C expressed in **degrees K and F**?
10. The quantity 6.5x105 pg expressed in mg?
11. A bath tub leaks water at the rate of 22.23 mL/sec. If the bath tub is not repaired, what volume of water in gallons will it leak in a year?  (0.2461 gallons = 1 liter)
12. Convert 8.25X102cg to nanograms.