**Mole HomeWork 1**

**Your name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Do these problems and turn your completed work to class**

**Monday 21 September. You can put your work on a separate piece of paper or copy this off and do the work in the spaces provided. SHOW WORK or NO CREDIT!!!!**

**1.1 Use the Periodic Table to compute the molecular weight of**

 **H2SO4 (sulfuric acid) in grams/mol.**

 **2+32+4\*16=98 H2SO4**

 **\_\_\_98\_\_\_\_ g/mol Molecular**

 **Weight**

**1.2 How many grams of H2SO4 are in 2.0408 moles of H2SO4 ?**

**2.0408 ~~mol~~\*98 g/~~mol~~=200 g**

 **\_200\_\_\_ g H2SO4**

**1.3. How many molecules of H2SO4 are in 1633.33 g H2SO4?**

 (1 mol count =6\*1023)

1633.33 ~~g~~ \*1 ~~mol~~ \* 6\*1023 molecules =100\*1023=1\*1025

 98 ~~g~~ ~~mol~~

 **\_1\*1025\_\_\_\_ molecules**

 **H2SO4**