**Conversion Problems**

1. Decide what you are starting with or what you are given
2. Decide what you are looking for

**Units cancel** Not numbers!

**Grams to Moles:**

**Grams to Moles to atoms:**

**Moles to atoms:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Atoms to moles:**

**Atoms to grams:**

**Moles to grams:**

**Milliliters (ml) to liters (L):**

**Liters (L) to milliliters (ml):**

**Molarity (M) = =**

**Starting Molarity (M1) x Starting Liters (L1) = Final Molarity (M2) x Final Liters (L2)**

**(M2) (L2)**

**NOTE: This equation is the same as (M2) (V2). Liters measure volume (V)!**

**Starting Molarity (M1) =**

**Final Molarity (M2) =**

**=**

**=**