The Mole Highway
Your roadmap to help get from quantity to quantity!

How to use this:
1. Find your starting place
2. Find your stopping place
3. Follow the roadmap!

Useful Conversion Factors:

**Molecular Weight (MW in grams/mol)**
Molecular weight (also called formula weight and molar mass) - the weights of all atoms in a molecule. Read the values off the periodic chart and add them together! (You can find this every time!)

**Density (in grams/mL)**
mass per volume - that is the amount of grams that will displace 1 mL of water. Water is 1 g/mL - Any other densities will have to be given to you in the book!

**Avagadro's Number:** $6.022 \times 10^{23}$ particles in 1 mol

**Chemical Equation:** You need this to be able to convert moles of reactant to moles of product! Always make sure your chemical equation is balanced!