

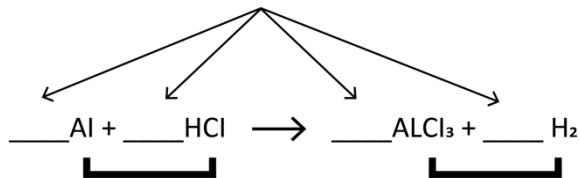
STOICHIOMETRY: MOLES TO MOLES NOTES

Vocabulary:

Fill in the blank:

Stoichiometry - Greek, "stoiechion" (_____) and "metron" (to _____). The calculation of the amount of substances in a chemical reaction from the balanced equation.

Balance the equation and then label the reactants, products, and coefficients in the following chemical equation:



Conversion factor- a _____ numeric _____ of equal measurements used to convert quantities between different _____.

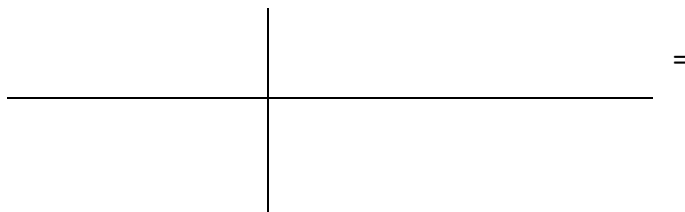
Moles- the _____ of an element or compound containing _____ (Avagadro's number) particles (ex. atoms, ions, etc.) of that element/compound.

Molar(Molecular) Mass- the _____ (in _____) of a single mole of particles (atoms, ions, or molecules) of an element/compound.

Steps:

1. _____ the equation
2. Determine the _____ to _____ ratio between A and B
3. _____ across, _____ bottom

General Form for mole to mole conversions:



ketzbook's Stoichiometry Tricks Video:

Nitrogen reacts with Hydrogen to produce a component of fertilizer called ammonia, NH_3 . How many moles of Nitrogen, N_2 , do you need to make 10 moles of ammonia, NH_3 ?

1. Balance the equation:



2. Determine the mole-to-mole ratio: _____
3. _____ moles NH_3 require _____ moles N_2
4. Using the given information to solve the problem:

