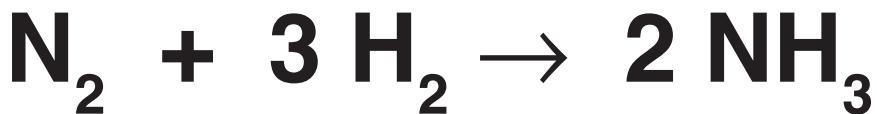




The Molar Subway

You **must** have a balanced equation!



H_2
gram

Molar Mass
1 mol = 2.008 g

Avogadro's
Number
1 mol = 6.022×10^{23}

H_2
mol

NH_3
mol

Molar Mass
1 mol = 17.03 g

NH_3
gram

Avogadro's
Number
1 mol = 6.022×10^{23}

mol Ratio
 $3 \text{H}_2 = 2 \text{NH}_3$

H_2
molecule

molecular formula
1 N atom = 1 NH_3 molecule

molecular formula
2 H atoms = 1 H_2 molecule

H
atoms

N
atoms

NH_3
molecule

molecular formula
3 H atoms = 1 NH_3 molecule

H
atoms