# Section 12.2 Chemical Calculations

#### OBJECTIVES:

- <u>Construct</u> "mole ratios" from balanced chemical equations, and <u>apply</u> these ratios in mole-mole stoichiometric calculations.
- <u>Calculate</u> stoichiometric quantities from balanced chemical equations using units of moles, mass, representative particles, and volumes of gases at STP.

#### Mole to Mole conversions

2Al<sub>2</sub>O<sub>3</sub> -+ 4Al + 3O<sub>2</sub>

each time we use 2 moles of Al<sub>2</sub>O<sub>3</sub> we will also make 3 moles of O<sub>2</sub>

These are the two possible conversion factors to use in the solution of the problem.

#### Mole to Mole conversions

How many moles of O2 are produced when 3.34 moles of Al2O3 decompose?
2Al<sub>2</sub>O<sub>3</sub> → 4Al + 3O<sub>2</sub>

If you know the amount of  $\underline{ANY}$  chemical in the reaction, you can find the amount of ALL the other chemicals!

#### Practice:

 $2C_2H_2 + 5 O_2 \rightarrow 4CO_2 + 2 H_2O$ 

- If 3.84 moles of C<sub>2</sub>H<sub>2</sub> are burned, how many moles of O<sub>2</sub> are needed?
- How many moles of C<sub>2</sub>H<sub>2</sub> are needed to produce 8.95 mole of H<sub>2</sub>O?

# **Chemistry Chapter 12 Stoichiometry Notes**

J Elliott

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