#### Chemistry 11 - MOLE RATIOS (using the three step method)

Magnesium metal reacts with hydrochloric acid to produce magnesium chloride and hydrogen gas. The chemical equation is given as the following:

$$Mg(s) + 2HCl(aq) \rightarrow MgCl_2 + H_2(g)$$

If 4 moles of HCl is used, how many moles of MgCl2 will be formed in the reaction?

Step (1): What is the mole ratio for HCl to MgCl<sub>2</sub>?

2 mol HCl: 1 mol MgCl<sub>2</sub>

Step (2): Write two conversion factors for this mole ratio.

2 mol HCl	4047	1 mol MgCl <sub>2</sub>
1 mod MgCl <sub>2</sub>		2 mol HCl

Step (3): Calculate the number of moles of MgCl<sub>2</sub> formed.

What you want = What you have X Conversion factor

2 mol MgCl<sub>2</sub>

Now try these example questions on a separate sheet of paper using the 3-step method!

a) If 0.65 moles of CaSi<sub>2</sub> is used, how many moles of Sb will be formed in the reaction?

Answer: 0.43 mol Sb

b) If 1.47 moles of Si is formed in the reaction, how many moles of SbCl<sub>3</sub> was used at the start of the reaction?

Answer: 0.49 mol SbCl<sub>3</sub>

2. In a Chemistry 11 experiment, John mixes 0.010 moles of calcium chloride together with silver nitrate in a beaker. This results in the formation of silver chloride and calcium nitrate. How many moles of silver chloride are formed in the reaction?

# **Mole Ratio Worksheet Answer Key**

Julie C. Gilbert

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