#### Stoichiometry Worksheet # 1

 Glucose is used as a source of energy by the human body. The overall reaction in the body is C6H12O6+6O2 → 6CO2 + 6H2O

Calculate the number of moles of oxygen needed to oxidize 12.5 g of C6H12O6.

Ammonia is synthesized from hydrogen and nitrogen according to the following equation.

$$N_2 + 3H_2 \rightarrow 2NH_3$$

If an excess of nitrogen is reacted with 3.41 moles of hydrogen gas, how many grams of ammonia (NH) can be produced?

3) Assume that in the decomposition of potassium chlorate, KCLO<sub>3</sub>,

80.5 moles of O: form. How many grams of potassium chlorite, the other product would be formed?

4) In a single displacement reaction,

9.23 moles of aluminum react with excess hydrochloric acid. How many moles of hydrogen will be produced?

5) The compound "Cisplatin" PtCl<sub>2</sub>(NH<sub>3</sub>)<sub>2</sub>, has been found to be effective in treating some types of cancer. It can be synthesized using the following reaction

$$K_2PtCl_4 + 2NH_3 \longrightarrow 2KCl + PtCl_2(NH_3)_2$$

- A. How many moles of "cisplatin" can be produced from 2.50 g K2PtCl4?
- B. How many moles of NH3 would be needed if 3.8 moles of K2PtCl4 were present?

# **Stoichiometry 12 Test A Matching Actual Yield**

**R Barnett** 

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