## Chemistry Stoichiometry Worksheet Answer Key

## Worksheet 1.6 Supplemental Instruction Iowa State University

Leader:Lea Course:Chem 177 Instructor:Dr. Schewe-Miller Date:2/5/2013

- 1.) A piece of aluminum foil 1.00 cm square and 0.550 mm thick is allowed to react with bromine to form aluminum bromide.
  - a.) How many moles of aluminum were used? (density Al = 2.699 g/cm³)

b.) How many grams of aluminum bromide form, assuming the aluminum reacts completely? What type of reaction is this? ZAI +3Bc , -2 AIBc

- a. Determine the percent composition of H and C for benzene.

b. Write a balanced combustion reaction for benzene.

c. Assuming you have 364g of benzene, how many moles of O2 will be required to completely combust this amount of benzene?

d. How many grams of CO<sub>2</sub> will this produce? How many grams of H<sub>2</sub>O?

$$CO_7: 36 G_{Cu} H_{Cu} \times \frac{Imol GH_{Cu}}{75.12g} G_{U} H_{Cu} \times \frac{I2 mol GO_2}{2 mol GH_{Cu}} \times \frac{441.0 I_{Q} GO_2}{1 mol GO_2} = 1.23 \times 10^3 g GO_2$$

$$H_2O: 36 I_{Q} G_{U} H_{Cu} \times \frac{Imol GH_{Cu}}{75.12g} G_{U} H_{Cu} \times \frac{6 mol H_{2}O}{2 mol GH_{Cu}} \times \frac{15.6 H_{2}O}{1 mol H_{2}O} = 2.52 \times 10^3 g H_{2}O$$
e. You perform the combustion, and 956g of CO<sub>2</sub> are produced. What is the percent yield?

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