

# Participation Assignment

## CHEM 1090-General Chemistry I

Name:

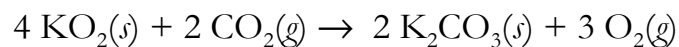
#8

Section: 31, MWF

Due Date: Monday 7/31/2017

1. A sample with a mass of 8.119 g contains 5.875 g iron and 2.244 g oxygen. What is the empirical formula?

2. Answer both parts using the following chemical equation:



a. Calculate the mass of  $\text{O}_2$  produced from 8.000 g  $\text{CO}_2$  and an excess of  $\text{KO}_2$ .

b. Calculate the mass of  $\text{O}_2$  produced from 8.000 g  $\text{KO}_2$  and an excess of  $\text{CO}_2$ .