Participation Assignment
CHEM 1090-General Chemistry I

Name: **#8**
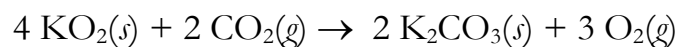
Section: 32, TR   **Due Date: Thursday 2/13/2020**

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:

$$4 \, KO_2(s) + 2 \, CO_2(g) \rightarrow 2 \, K_2CO_3(s) + 3 \, O_2(g)$$

a. Calculate the mass of O_2 produced from 8.000 g CO_2 and an excess of KO_2.

b. Calculate the mass of O_2 produced from 8.000 g KO_2 and an excess of CO_2.