

Name _____

GAS LAW PROBLEMS I

Given the following all gas reaction: $2 \text{SO}_2 + \text{O}_2 \rightarrow 2 \text{SO}_3$

If 192 g of SO_2 are reacted with sufficient O_2 , calculate the following:

1. MOLES of SO_2 reacted. _____

2. MOLES of O_2 reacted. _____

3. MOLES of SO_3 produced. _____

4. LITERS of O_2 (STP) reacted. _____

5. LITERS of O_2 reacted at 100°C and 800 mm Hg. _____

6. LITERS of SO_3 (STP) produced. _____

7. GRAMS of O_2 reacted. _____

8. GRAMS of SO_3 produced. _____

9. MOLECULES of O_2 reacted. _____

10. MOLECULES of SO_2 reacted. _____

11. MOLECULES of SO_3 produced. _____