

Name _____

Date _____ Pd _____

Chemistry – Unit 8 Worksheet 4

1. How many kJ of heat will be released when 4.72 g of carbon react with excess oxygen gas to produce carbon dioxide?



2. How much heat should be transferred when 38.2 g of liquid bromine reacts with excess hydrogen gas to form hydrogen bromide? Is the heat being transferred from the system to the surroundings or from the surroundings to the system?



3. How many kJ of heat would you expect to be transferred when 6.44 g of sulfur react with excess oxygen gas to produce sulfur trioxide? Is this reaction endothermic or exothermic?



4. Nitrogen gas and oxygen gas can combine to produce nitric oxide, NO. If such a reaction absorbs 88.0 kJ of heat from the surroundings, how many grams of nitrogen gas do you predict were consumed in the reaction?

