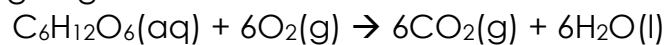


Advanced Chemistry
Ideal Gas Law & Stoichiometry WS

NAME: _____ **PER:** _____

*Instructions: Complete the following problems. SHOW ALL WORK in the empty space below the questions.
Remember the units. Round to the nearest hundredths place.*

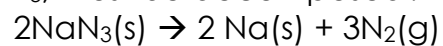
1. Calculate the volume of oxygen you would need, at 1.150 atm and 298.0 K, to completely oxidize 50.00 g of glucose.



2. How many grams of CaH_2 are needed to generate 187.0 L of H_2 gas if the pressure of H_2 is 1.400 atm at 25.50°C



3. If an air bag has a volume of 28.15 L and is to be filled with N₂ gas at 2.330 atm and 21.35°C, how many grams of NaN₃ must be decomposed?



4. How many liters of NH₃(g) at 948.0°C and 4.710 atm are required to react with 0.9780 mol of O₂(g) in this reaction?

