		A	USWER	5	
CA Sto	of Gas volume and limes.	itting reagent Liveebly continue Shirisher shoot		Name Period	
1. 2.	What does STP stand for	ssure? 1.00	temper atmospher	et we and	parsour
3.	At STP what is the tem	perature? OC	98 89		
4.	Describe all gases at S	oles of gas at STP =		liters of gas	
6.	2. A 90.0 mL volume At what volume would temperature is constant Pressure 740 m after 700 m should factor and pressure is 6.4 atm and pressure is 1.0 atm initial volume was 2.1: Fore 281 6.4 atm fore 281 6.4 atm fore 281 6.4 atm	om the bottom of a la, to the water's surfan. Calculate the final	gas be 700 mm F	Hg? Assume Omnth The says words mperature is 8°C a mperature is 25°C	and
Volume 7.	Determine the volume reaction between 100.	in liters of carbon di	oxide that should	d be produced in the	t mL
Olgran C	steps as in the previous OC+002 I mel 12.01 grom C	s problem above).	y coz =	187 liters Coz	7
frem (100 liters (answer #	$\frac{\mathcal{O}_{2} \times \left(\frac{1}{\mathcal{O}_{2}} \times \frac{1}{\mathcal{O}_{2}} \times \left(\frac{1}{\mathcal{O}_{2}} \times \frac{1}{\mathcal{O}_{2}} \times \left(\frac{1}{\mathcal{O}_{2}} \times \frac{1}{\mathcal{O}_{2}} \times \frac{1}{\mathcal{O}_{2}} \times \left(\frac{1}{\mathcal{O}_{2}} \times \frac{1}{\mathcal{O}_{2}} \times $	1 mol K (-1)	(co2)	100. 1: tos CO2	15 CO2

 Suppose 10.61 g of calcium was allowed to react with 8.61 liters of HCl gas to produce calcium chloride and hydrogen gas.
a What is the balanced equation?
1 Ca + 2 HCl -> CaCl2+ H2
h Which received in limiting (Chambathallalainn)
10 61 gran Ca / 1 ca / 1 mil / 22.44 Hz = 6 920 Liters Hz) both connot
10.61 gran Ca x (1 mol) (22.4 Hz) = 5.920 Liters Hz both connot be true. 8.61 L Hcl x (1 mol) (1 mol) (22.4 Hz) = 4.3 1 true 10.61 gran Ca x (1 mol) (
8.61 LHCe / 1 Mote / 1 Mote /22.41 The = 4 311 H1 H2 resulting
27.4 LITER 2 mole X (1 mole) ANSWER HCL IS limited 5 at 1
c. Osing the minting reactant, solve for now many liters of hydrogen gas win
form at Standard Temperature and Pressure.
Answer, see calculation in (B); 4.31 liters Hz Will Form
1121 Nacc Ha Will Form
4.31 11/11/2
DATONIC! DIATONIC!
DATONIC
9. Suppose 55.00 L of nitrogen gas and 103.00 L of hydrogen gas are mixed and reacted to form ammonia (NH _a). Calculate the volume in liters of ammonia
produced when this reaction runs to completion.
WEITE A BALANCED EQUATION FIRSTS 2 102 3 12 2 No.
we the A BALANCED EQUATION FIRSTS $\frac{1}{1} \frac{N_2}{N_1} = \frac{1}{1} \frac{1}$
(22.4 2 1-2 / (1 1-2) (1003)
103.00 H2 x (1 Mot H2) x (2 MH3) x (22.4 MH3) = 68.7 Liters NH3 (8.7 Liters NH3 form
224 Har 3 mg I My ANSWER: NICT
68.7 Liters NHz toin
10. Gold (III) sulfide can react with fluorine to form gold(I) fluoride gas and S ₈ . Write a balanced reaction and then find how many liters at STP of AuF will form
if you have 333.3 grams Gold (III) sulfide and 7 liters fluorine.
1 223 2 granty 53 / 1 Aus x / 16 Aus x / 22.4 Aus -31.1 Liters
490.42 Jussa 4 20252 1 Mor
mal work for the Liters
7. liters F2 x 16 mol x 20 Auf
22 Fe) (8 Fe) 14.2