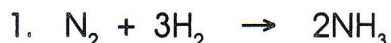


Molar Volume of a Gas

Name _____

Remember that 1 mol of any gas takes up 22.4 L @ STP.



What volume of hydrogen is necessary to react with five liters of nitrogen to produce ammonia? (Assume constant temperature and pressure.)

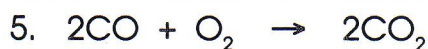
2. What volume of ammonia is produced in the reaction in Problem 1?



If 20 liters of oxygen are consumed in the above reaction, how many liters of carbon dioxide are produced?



If 30 mL of hydrogen are produced in the above reaction, how many milliliters of oxygen are produced?



How many liters of carbon dioxide are produced if 75 liters of carbon monoxide are burned in oxygen? How many liters of oxygen are necessary?
