

NAME: _____

STOICHIOMETRY: VOLUME EXERCISES WORKSHEET

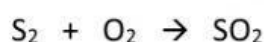
Solve the following stoichiometry problems and write the correct answer with units (For example: mol, g or L) Round up to 2 decimals.

1. How many liters of H_2 are created from the reaction of 20.0g K?



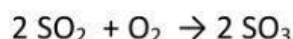
Answer: _____

2. How many liters of SO_2 will be produced from 26.9L O_2 ?



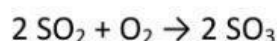
Answer: _____

3. How many liters of oxygen gas are needed to react with 0.234 grams of SO_2 gas at STP?



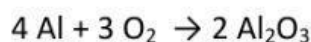
Answer: _____

4. How many liters of oxygen gas are needed to produce 36.5 liters of SO_3 gas at STP?



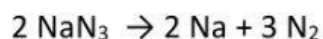
Answer: _____

5. Calculate the volume (in liters) of oxygen gas required to react with 50.0 g of aluminum at STP.



Answer: _____

6. An automobile airbag inflates when N_2 gas results from the explosive decomposition of sodium azide (NaN_3). Calculate the mass of NaN_3 required to produce 50.0 L of N_2 gas at STP



Answer: _____