

NAME: _____

STOICHIOMETRY: VOLUME EXERCISES WORKSHEET

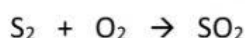
Solve the following stoichiometry problems and write the correct answer with units (For example: mol, g or L) Round up to 2 decimals.

1. How many liters of H₂ are created from the reaction of 20.0g K?



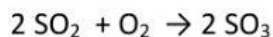
Answer: _____

2. How many liters of SO₂ will be produced from 26.9L O₂?



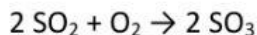
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3. How many liters of oxygen gas are needed to react with 0.234 grams of SO₂ gas at STP?



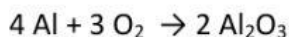
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4. How many liters of oxygen gas are needed to produce 36.5 liters of SO₃ gas at STP?



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 N₂ gas results from the explosive decomposition of sodium azide (NaN₃). Calculate the mass of NaN₃ required to produce 50.0 L of N₂ gas at STP



Answer: _____