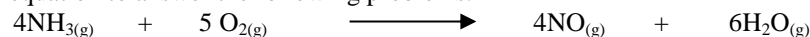


Name: _____

10 Pts.

Chemistry Worksheet: Stoichiometry
Show all work with proper Units and Sig Figs. Box Final Answer

1. Use this balanced equation to answer the following problems.



- a.) What mass of NO is produced when 72.0 grams of NH₃ is reacted?
- b.) From "a." above, if 106 grams of NO were actually produced what is the percent yield?
- c.) What mass of NH₃ is needed to react with 18.0 grams of oxygen?
- d.) What mass of water is formed when 291 grams of NH₃ reacts?
2. Write a balanced equation for the direct combination of sodium and nitrogen.
- a.) What mass of sodium nitride is formed when 2.00 grams of sodium reacts?
- b.) From "a." above, if 1.95 grams of sodium nitride were actually produced what is the percent yield?
- c.) What mass of sodium nitride is formed when 342 grams of nitrogen reacts?
- d.) What mass of sodium is needed to react with 12.5 grams of nitrogen?