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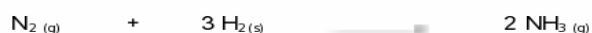
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IC Ch. 9: Worksheet – Stoichiometry Problems (Moles to Moles & Mass to Mass Problems)

Instructions: Determine the type of Stoichiometry problem (moles A \Rightarrow moles B or mass A \Rightarrow mass B), then use stoichiometry to solve for the quantity requested.

1. How many moles of NH_3 are produced if 15.0 moles of N_2 is reacted with an excess of H_2 ?



2. How many moles of silver (I) sulfide are formed when a 7.20 moles of silver reacts with sulfur?



3. If 20.0 grams of zinc reacts with hydrochloric acid, how many grams of zinc chloride are produced?



4. How many grams of chlorine gas are needed to react with excess sodium iodide if you need to produce 10.0 grams of sodium chloride?



5. How many grams of oxygen are produced in the decomposition of 5.00 grams of potassium chlorate (KClO_3)?

