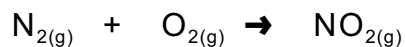
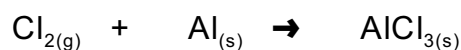


1. In the production of nitrogen dioxide, how many grams of nitrogen are needed to react with 12.50 mol of oxygen to? (175.1 g)



2. How many grams of aluminum chloride can be produced from the reaction of chlorine and 1.85 mol of aluminum? (247 g)



3. What mass of water will be produced when 4.55 mol of propane are burned in a Bunsen burner? (328 g)



4. How many grams of hydrogen are produced when 1.50 mol of zinc react with hydrochloric acid,  $\text{HCl}_{(aq)}$ ? (3.03 g)



5. What mass of oxygen will be formed when 0.102 mol of iron(III) oxide decompose to form iron and oxygen ? (4.90 g)



6. What mass of water will be produced from the reaction of nitric acid,  $\text{HNO}_{3(aq)}$ , with 0.500 mol of aluminum hydroxide solid? (27.0 g)