Name	
Marie Line	 

- When aluminum is heated in oxygen, aluminum oxide is formed. What weight of the oxide can be obtained from 25.0 g of the metal?
- When steam (hot water) is passed over iron, hydrogen gas and iron (III) oxide are formed. What weight of steam would be needed to react completely with 100.0 g of iron?
- 3. How much ammonium hydroxide is needed to react completely with 75.0 g of copper (II) nitrate in a double replacement reaction?
- 4. When ammonia is burned in oxygen, free nitrogen gas and water are produced. What volume of ammonia will react completely with 25.0 L of oxygen? What volume of nitrogen gas is formed?
- When sodium carbonate reacts with hydrochloric acid, the carbonic acid that is formed immediately breaks down into carbon dioxide and water. What weight of sodium carbonate would have been present originally if 5.0 L of carbon dioxide were obtained in this way?
- 6. How much copper metal can be obtained by the single replacement reaction between copper (I) nitrate and 30.0 g of iron metal? (Iron [II] nitrate is formed.)
- 7. What weight of sulfuric acid will be needed to react completely with 35.5 g of ammonia in the production of ammonium sulfate?
- What weight of chlorine gas will be needed to react completely with 85.8 g of potassium iodide in a single replacement reaction?
- In the neutralization reaction between sulfuric acid and potassium hydroxide, how much potassium sulfate can be produced if you have 150.0 g of sulfuric acid to begin with?
- 10. What volume of nitrogen gas is needed to react completely with 150.0 L of hydrogen in the production of ammonia?

A MARINE 302 - 2 - 4 12 0 2 15. 33 25.09 A1 1000 A1 2 mole Aliva 101.969 A107 26.989 A1 4 mole A1 1000 A1602 47. 23 447.03 2).3 Hzo + 2Fe - 3 N2 4 Fe 203 X g /00 bg male de 13 mis 6 His 18 29 His 100.9574 35.89 Fe 7 mals Fe / mole trous 4849 tro 75.69 (2 (2003)2 Imole (2 (2003)2 | Zmole (2013)(DH) 350 6 9 MAYOH) = 28.03 [MUG/MAYOH] 474143 + 30, - 21/2 + 6420 X boom 25.04 Inula 02 Haulo 11/2 1224 2 11/3 25.01 0% - 3334 33.4 - 12 3000 00 mobility - wis

+ and - Hades + and a 5) Naz Coz H2.50 + 5 502 5.02 co2 mol (or forelista (0) 105.99 g/m/03 22.46 602 Inolo 602 / Troble 26,10; 23. To Maz (6)3 62 Cu (No) + Fe -> 2 Cu Fe (Nos)= Xą 30.09 100 le 200 le 63550/2005 55.85, Le 100 le 10 30.45 } € 68.39 6 7) Hz SQ1 + ZNH3 X3 35,59 min (AH) SOY 35.59 NH3 Imple 11/3 Imple Hasby 198.089 Hasby = 102/29 AUS04 t TKI - JKG 40 44 07 8) C12 85.83 70.9049 ADDOVAL THE OCCUPANT 45 87 KI 1 1 m ola C. 42 166.018 KI TO MOG KI 18.30 Ch

A H2SOy + 2KOH -> K2SOy + H2SO 150.09 766, 9 Kasa Larry & Add Nog agent of the state 150,01 Az WWO & JIN WO CA 224 L VZ 22.46 H2 30006 H2 1 NO GN2 50,04 N2