#1-4: Write the formula and calculate molar mass.

1.

3. Aluminum sulfate  $Al_2(S0_4)_2$ Chlorine C 26.98 (2) 35.45(2) = 70.90 g/mol + 32.07(3) + 16(12) 342.17 9/mol 4. Carbonic acid 2. Ammonium acetate NHy C2H3O2 14.01 + 1.01(4) + 12.01(2)1.01 (2) + 12.01 + 16(3) + 1.01(3) + 16(2)62.03 g/mol = 77.1 g/mol



5. Determine the number in the number of moles in  $\frac{4 \text{ sig figs}}{25.00\text{ g of chlorine gas}}$ . (use the molar mass from #1) 3iven

$$\frac{25 \text{ g Cl}_2 \text{ l mol Cl}_2}{70.9 \text{ g Cl}_2} = \boxed{0.3526 \text{ mol Cl}_2}{4 \text{ sig figs}}$$





