UNITS ARE IMPORTANT (g, L, moles, etc AND what substance are you referring to!)

$Mg(OH)_2 + 2 HCl> MgCl_2 + 2 H_2O$
58.81g = 13.21g 82.69Mg(1z) 58.81g 12.9g 95.21g +101: 12.9g = 13.
What is the theoretical yield of MgCl ₂ ? What is the limiting reactant? What is the limiting reactant?
2. If there is 23.4 L of Hydrogen gas at STP that reacts with 32.4L of Oxygen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP that reacts with 32.4L of Oxygen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP that reacts with 32.4L of Oxygen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP that reacts with 32.4L of Oxygen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP that reacts with 32.4L of Oxygen gas at STP, please determine the mass of water vapor that can be produced. 12. Hydrogen gas at STP that reacts with 32.4L of Oxygen gas at STP, please gas at STP, ple
3. If 5.00 grams of copper metal react with a solution containing 20.0 grams of AgNO ₃ , model please answer the following questions. (HINT: the copper will become the copper (II) ion.) Cui + 2AgNO ₃ Cu(NO ₈) ₂ + 2Ag (NO ₈) ₃ + 2Ag (NO ₈) ₄ + 2Ag (NO ₈) ₅ + 2Ag (NO ₈) ₆ + 2Ag (NO ₈)
Han 03! 239.71a 215 74 What is the limiting reactant? What is the excess reactant? What is the theoretical yield of silver that is formed? 12.7a
4. Heating together the solids NH ₄ Cl and Ca(OH) ₂ can generate ammonia(NH ₃), aqueous CaCl ₂ and liquid H ₂ O. If a mixture of 33.0 g each of NH ₄ Cl and Ca(OH) ₂ is heated, how many grams of each product can be formed? (hint, you still need to find the LR, since we know that gets used up completely). 2 NH ₄ Cl ₃ + Ca(OH) ₂ (s) 2 NH ₃ (g) + CaCl ₂ (ag) + 2H ₂ O ₁ (s) 100.92g 34.02g 34.02g 34.02g 34.02g 36.9
Mass of each product: $10.5q$ $10.5q$ 10.92 34.02 10.92 34.02 10.92 34.02 34.02 34.02 34.02 34.02 34.02 34.02 34.02 34.02 34.02
$\frac{106.12}{33} = \frac{14.00g}{33} = \frac{34.02}{x} = \frac{106.92}{x} = \frac{106.92}{33} = \frac{106.92}{x}$ $\frac{106.92}{33} = \frac{106.92}{x} = \frac{106.92}{33} = \frac{106.92}{x}$ $\frac{106.92}{33} = \frac{106.92}{x} = \frac{106.92}{33} = \frac{106.92}{x} $