**The percent yield of a product is the actual amount of product expressed as a percentage of the calculated theoretical yield of that product.**

**Actual Amount of Product**

**Percent Yield = X 100**

**Theoretical Amount of Product**

**What is the percentage yield in the following reaction if 5.50g of hydrogen react with nitrogen to form 20.4g of ammonia?**

* **Step 1 Write and balance the equation**
* **Step 2 Set up the problem using dimensional analysis and solve.**
* **Step 3 Solve for Percent Yield**

**Percent Yield = X 100 =**