6.4 Limiting Reactants (S) Notes

Review from last week: What are the Reactants?   What are the Products?

$$\_\_\_Bread + \_\_\_Cheese + \_\_\_Ham \rightarrow \_\_\_ Bread_2Cheese_3Ham$$

"Moles" (Slices):

What if we had 6 slices of bread and 6 slices of cheese, but wanted to make *this* sandwich?

Bread: 25 g / slice
Cheese: 80 g / slice
Ham: 100 g / slice

Grams:

$$\_\_\_Bread + \_\_\_Cheese + \_\_\_Ham \rightarrow \_\_\_ Bread_2Cheese_3Ham$$

"Moles" (Slices):

What if we had 2,000 g of bread and 4,000 g of cheese, but wanted to make *this* sandwich?

Limiting Reactant

Theoretical Yield

Grams:

$$N_2 \quad + \quad 3H_2 \quad \rightarrow \quad 2NH_3$$

Moles:

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Grams:

$$N_2 \quad + \quad 3H_2 \quad \rightarrow \quad 2NH_3$$

Moles:

HW/Practice: pg 314, #1-3; pg 319, #8, 13