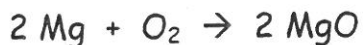


Stoichiometry

- study of the _____ relationships in a _____
- based on _____ equations



The _____ in a _____ give the _____ for the _____ involved in the _____.

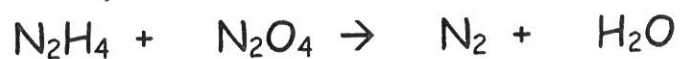
Ex. Problem:

When elemental aluminum reacts with elemental iodine, aluminum iodide is produced.

mole ratios: _____ Al: _____ I₂
 _____ Al: _____ AlI₃
 _____ I₂: _____ AlI₃

If you start with 4 moles of Al, how many moles of AlI₃ will be produced?

Problem Set One



BE SURE TO BALANCE THE EQUATION FIRST!!

A) ? moles $\text{N}_2\text{O}_4 = 2.72$ moles N_2H_4

B) ? moles $\text{N}_2 = 2.72$ moles N_2H_4

How many moles of water will be produced when _____ grams of hydrogen gas react with the oxygen in the air?

(Hint: To "make the switch" between different substances in a reaction, use the _____ ratio from the _____ equation.)

Problem Set Two

In photosynthesis, carbon dioxide and water react to form glucose, $C_6H_{12}O_6$ and oxygen gas.



BE SURE TO BALANCE THE EQUATION FIRST!!

If 15.6 grams of carbon dioxide react, how many moles of glucose will be produced?

How many grams of carbon dioxide must react to produce 0.25 moles of glucose?

The Chemistry Quiz

CR1.

CR2.

1.

2.

3.

4.

5.

