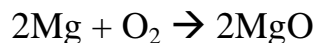


<http://www.gpb.org/chemistry-physics/chemistry/801>

Stoichiometry:

The study of the _____ relationships in a _____

Based on _____ equations



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

Ex. Problem: solid aluminum reacts with elemental iodine to form aluminum iodide.
The balanced chemical reaction is:

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

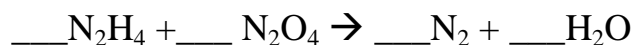
Mole ratios: _____ Al: _____ I₂

_____ Al: _____ AlI₃

_____ I₂: _____ AlI₃

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

Problem Set 1: BE SURE TO BALANCE THE EQUATION FIRST!!

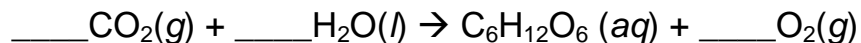


? moles N₂O₄ = 2.72 moles N₂H₄

? moles N₂ = 2.72 moles N₂H₄

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 2: BE SURE TO BALANCE THE EQUATION FIRST!!



M.M. of $\text{CO}_2 = ?$

? moles of $\text{C}_6\text{H}_{12}\text{O}_6 = 15.6 \text{ g CO}_2 \times$

? grams $\text{CO}_2 = 0.25 \text{ moles C}_6\text{H}_{12}\text{O}_6 \times$

The Chemistry Quiz

CR1.

CR2.

1.

2.

3.

4.

5.