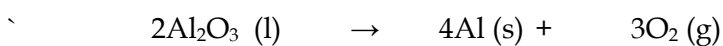


WHAT YOU NEED TO KNOW FROM SECTION 9.1 (pages 275-277)

- What is reaction stoichiometry?
- What do ALL stoichiometry problems require to solve? What two things does it provide?
- What is meant by “given” and “unknown” when it comes to stoichiometry problems?
- List the 4 types of Stoichiometry problems and show using arrows, the general “plan” for solving each type of problem (**THIS WILL BE VERY USEFUL AND IMPORTANT, SO DO IT!!!**)
 - 1.
 - 2.
 - 3.
 - 4.
- What is a mole ratio and where do you find them?

- Explain how there are **two** possible mole ratios between any two substances involved in a chemical reaction instead of just one.

- Below is the example equation from the book. Use it to answer the questions below:



- What are the two possible mole ratios for Al_2O_3 and Al ?
 - What are the two possible mole ratios for Al_2O_3 and O_2 ?
 - What are the two possible mole ratios for Al and O_2 ?
- How does this help us determine how many moles of Al would be produced if we started out with 13.0 moles of Al_2O_3 ?