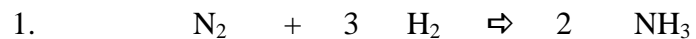


Pre-AP Chemistry/Chemistry
Unit #9—Stoichiometry

Mole Ratios



Moles to Moles



1. If there are 24.3356 moles of oxygen gas:
 - A. How many moles of ammonia are needed for the reaction?
 - B. How many moles of nitrogen gas are produced for the reaction?
 - C. How many moles of water are produced for the reaction?

2. $\text{N}_2 + 3 \text{H}_2 \rightleftharpoons 2 \text{NH}_3$
 2. If there are 0.889 moles of nitrogen gas:
 - A. How many moles of hydrogen gas are needed for the reaction?
 - B. How many moles of ammonia gas are produced for the reaction?