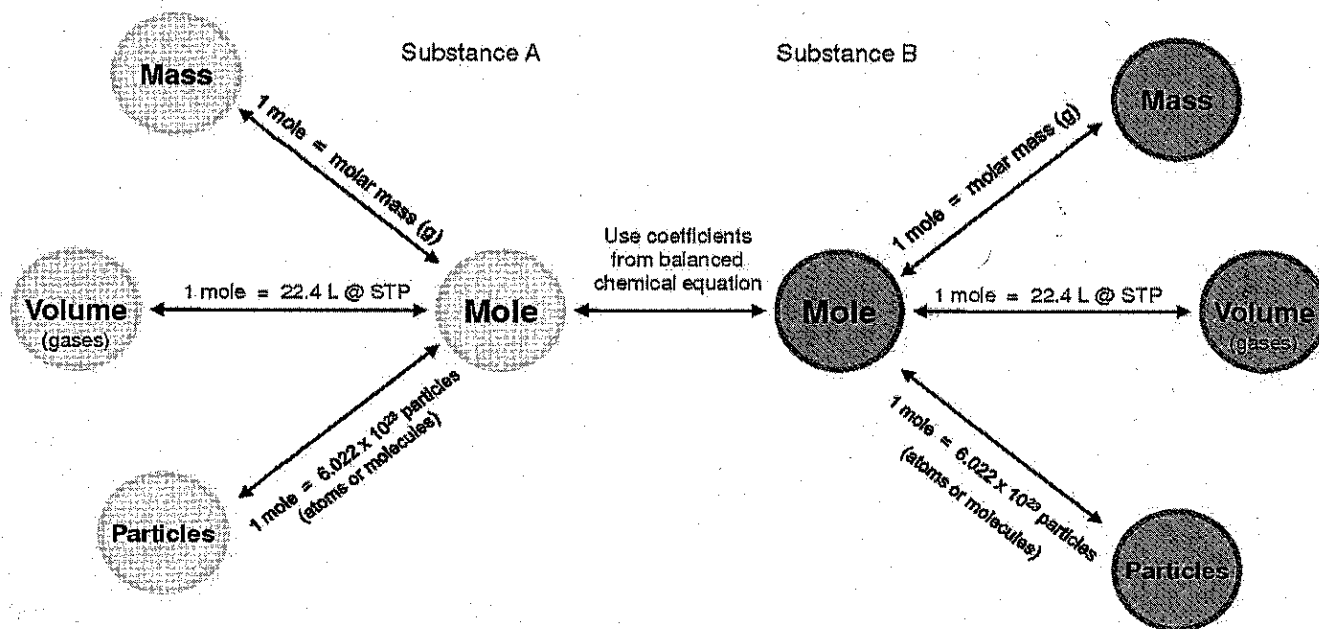


Stoichiometry

Stoichiometry involves the study of the relationships between reactants and products in a chemical reaction.

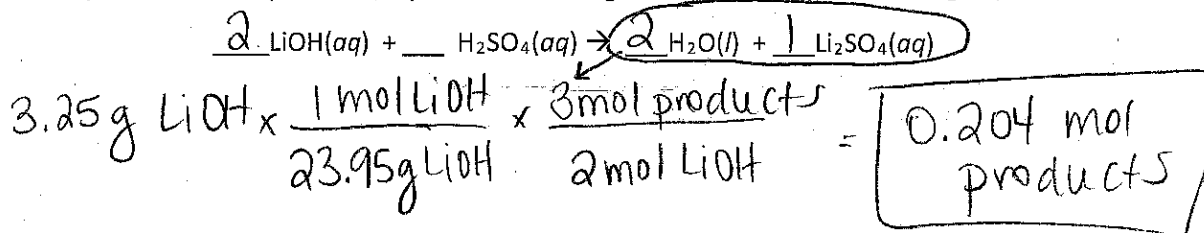
- The equation that is describing the reaction must be balanced.
- The coefficients in a chemical equation can describe individual molecules or amounts in moles of the products and reactants.

Mole Ratios and Molar Mass as Conversion Factors: A mole ratio is a conversion factor that relates the amounts in moles of any two chemical species involved in a chemical reaction.

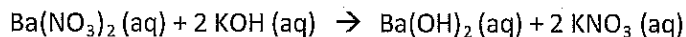


Basic Stoichiometry: Gram/Mole/Particle Conversions

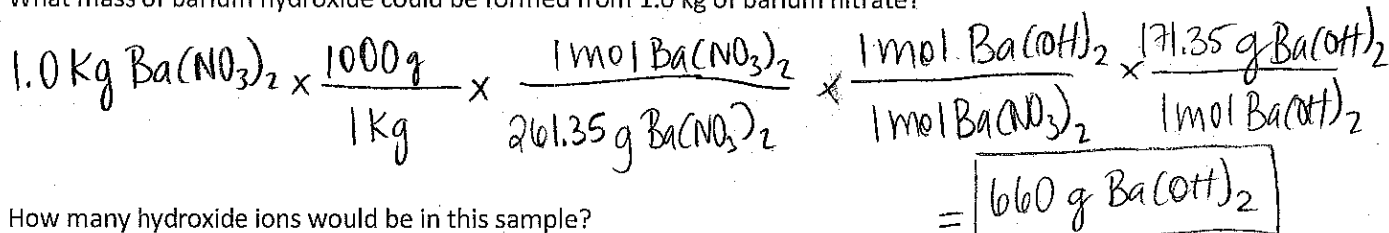
1. How many total moles of product are produced if 3.25 g of LiOH reacts with excess H_2SO_4 ?



2. Consider the following reaction:



- a. What mass of barium hydroxide could be formed from 1.0 kg of barium nitrate?



- b. How many hydroxide ions would be in this sample?

