Stoichiometry

What is it?

Stoichiometry- using math and the mole relationship to solve for mass, moles, atoms, or liters.

Things to remember

- 1. Your reaction must be balanced.
- 2. The **coefficients** will represent mole ratios.
- 3. Reactants on the left, Products on the right side of the reaction

How to Solve

Given

Wanted

Coefficient(given unit) Coefficient(wanted unit)

1mole=GFM=6.02x10²³atoms=22.4L

Let's practice

Al₂S₃ + NaCl → AlCl₃ + Na₂S You have 27.0 grams of sodium chloride. How many grams of Aluminum chloride would you produce?

More practice

Fe + $O_2 \rightarrow Fe_2O_3$ You are given 63.0liters of oxygen gas. How many grams of Iron react with it?

Last one

CrCl₃ + Br₂ \rightarrow CrBr₃ + Cl₂ You are given 8.21x10²²atoms of Bromine. How many grams of Chromium bromide would you form?