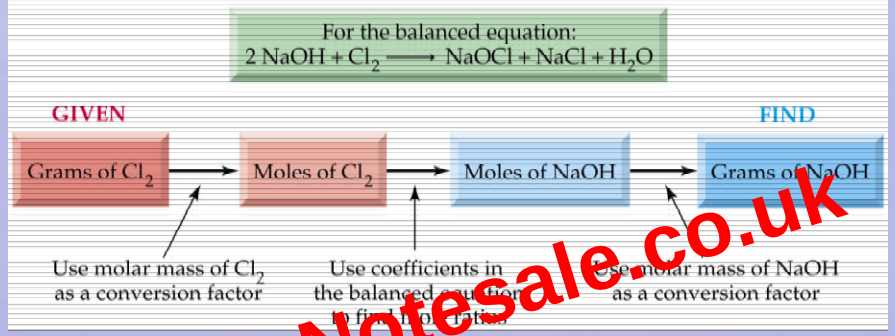
Working with equations: STOICHIOMETRY

- Predict how much product is obtained from given amount of reactant
- Predict how much reactant is needed to give required amount of product
- Predict how much of one reactant is required to give optimum result with given amount of another reactant



- Molar mass Cl_2 = 35.5 x 2 = 71.0 g/mol
- Molar mass NaOH = 23.00 + 16.00 + 1.01 = 40.01 g/mol

Determination of limiting reactant

- Two methods:
- Brute Force
  - Calculate quantity of product from each reactant in turn
- Elegant
  - Compare reaction stoichiometry with actual reactant mole ratios