

BASIC CONCEPTS OF CHEMISTRY

Chapter 5

Quantities in Chemistry

Objectives:

- * Calculate the masses of equivalent numbers of atoms of different elements
- * Define the mole in terms of numbers of atoms and atomic masses of elements
- * Perform calculations involving masses, moles, and number of molecules or formula units for a compound
- * Given the formula of a compound, determine the mole, mass, and percent composition of its elements
- * Given the percent or mass composition, determine the empirical formula and also the molecular formula if the molar mass is provided