• The Mole

The mole is the SI unit that measures the amount of matter a substance has; abbreviated as mol.

-6.02 × 10²³ representative Particles CAVOgadro's number).

Ex. How many molecules of Water in 0.360 moles of Water!

0.360 mol 420 x 6.02 x 10²³ molecules H20 2.17 x 10²³ molecules H20

Ex. How many moles of Mg in 1.25×10²³ Mg atoms?

1.25×10²³ Mg atoms x 6.02×10²³ Mg atoms

One atomic mass unit equals 1/12 the mass of a Carbon atom.

The molar mass is the mass, in grams, of a mole of a Substance.

-Molar mass is the Same number as the average atomic mass for an element.

Stoichiometry is the Calculation of the quantities of reactants and products

involved in a chemical reaction. Ex How many grams in 9.46 moles of 945 mol N203 x 76.02 9 N203 718 9 N203 Ex. How many moles in 92.2 9 Fez O3? 92.29 Fe203 x Impl Fe203 0.577 mol Fe203