

11/06/2009

Home assignment: to complete by Nov 21st

Chapter 3. – Read the whole Ch.3 (pp.87-113)

Recommended problems: on pp. 114-122: 3.XX, where XX is:

**ATTENTION : THIS are PAGE AND PROBLEM NUMBERS FROM 8th edition!
(not 9th) –use conversion (posted online) to get the right numbers for the latest
edition**

2, 3, 4, 6, 10, 12, 13,
15,17,21, 23, 25, 28,
35, 41, 43, 47, 51, 53,
63, 65, 69, 71, 75, 77, 81,
83, 87, 89, 97, 101,105, 107

(Remember, the blue ones have solutions in the end of the book – work out your own solution first, THEN check the book solution. Be sure you understand it.)

Some of the important terms:

Molecular and formula weights, mole, Avogadro's number, molar mass, percent composition and mass percentage, empirical formula, limiting reagent, theoretic and percent yield

developing skills:

1. calculating formula weight from given formula or structure
2. conversions between moles and grams .
3. calculating number of actual molecules or atoms in known amount of sample
4. elemental percentage calculations from given formula and from combustion analyses data
5. empirical formula determination based on percentage composition