Hill Side School

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Primary Division Phone 011-662 4
KG Campus (Koteba Area)
Kindergarten Division Phone 011-645 74 44

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Full Name: _____ Grade: 8 Section: _____

Subject: Chemistry Year: 2012 E.C work

PLEASE ATTEMPT THE FOLLOWING QUESTIONS AFTER STUDYING THE NOTES ON YOUR TEXT BOOK FROM PAGE 127-130

I. Give short answers to each question. (follows the steps)

1. The SI unit of the amount of substance is _____.
2. Define the term:
   a. Mole _____
   b. Molar mass _____
3. Calculate the mass of 3 mol of potassium atom? (At. Mass K=39)
4. How many moles are there in 162g of aluminum, Al? (Atomic mass: Al=27)
5. How many moles are 9.33×10^{24} molecules of water, H_2O?
6. What is the number of molecules of water, H_2O in 27g of water? (Atomic mass: H=1, O=16)
7. Calculate the number of atoms in 2 mol of oxygen atom?
8. Calculate the number of molecules in :
   a. 2mole CO_2 b. 51g of NH_3 C. 5mol of H_2
9. How many moles are there in
   a. 250g $CaCO_3$ (At. Mass: Ca=40: C=12, O=16)
   b. 9.033×10^{25} molecules of CO_2
10. Calculate the mass of:
    a. 3mol $CaCl_2$ (Atomic mass: Ca=40, Cl=35.5)

b. 1.2 mol NaOH (Atomic mass: Na = 23, O = 16, H = 1)