دولة الامارات العربية المتحدة
وزارة التربية والتعليم
مجلس 6 نطاق 3
مدرسة الزايدية للتعليم الثانوي – بنات

وزارة الـتربيـة والـتعـليـم
MINISTRY OF EDUCATION

THE EMIRATES
اليمـــارات

Name :   Class: Date:

Moles of compounds

Convert Mole of compound to Mole of atom

first: look at this example

Determine the moles of O atom are present in 5.00 mol of P_2O_5 .

solution:

- The relationship between O atom and P_2O_5 is $\dfrac{5 \text{ mol O}}{1 \text{ mol P2O5}}$

- convert from mole of compound to mole of atom
  $5.00 \text{ mol } P_2O_5 \times \dfrac{5 \text{ mol O}}{1 \text{ mol P2O5}} = 25 \text{ mol O}$

Second: Solve this question

1- Plants and animals depend on glucose ($C_6H_{12}O_6$) as an energy source. Calculate the moles of Hydrogen present in 1.25 mol $C_6H_{12}O_6$

- The relationship between H atom and $C_6H_{12}O_6$ is ——————

- convert from mole of compound to mole of atom

  mol $C_6H_{12}O_6 \times$ ——————— =   mol H

2- Calculate the number of moles of Aluminum atoms present in 2.5 mol of Aluminum oxide
- Formula of Aluminum oxide =
- The relationship between Al atom and Aluminum oxide is ——————

- convert from mole of compound to mole of atom

  mol   × ——————— =   mol Al

LIVEWORKSHEETS