Pro	vincial Department of Education	on – Sabaragamuwa – Week School	baragar
icho ol D	finetal Department of Daucation		eekly S
lucation,Sabarag	amuwa Province/ Weekly School Departmen	t of Education Scherogennum Browinso/ Weakly Schoo	1 Denectrop
amuwa Province/	Weekly School Department of Education, Sabaras	Week: 3 rd May- 8 th May,2021	r i
	ion,SabaragamuwaProvince/Weekly		
Subject: Science	ovince/ Weekly School Departmen		1.75
	no ol Department of Education, Sabaras	Translated by MG P Miyanadeniy	я
	nt of Education Sabaragamuwa Province/ Weekly		all
Creade 10		Dr. N. M. Perera National	School

07.Quantification of elements and compounds

Read the lesson "Quantification of elements and compounds" and complete the exercise.

Exercise

- 1. Find the relative molecular mass and molar mass of the following compounds.
- I. CO₂ (Carbon dioxide)
- II. NaCl (Sodium chloride)
- III. CaCO₃ (Calcium carbonate)
- IV. NH₄Cl (Ammonium chloride)
- V. Mg₃N₂ (Magnesium nitride)

- VI. H₂S (Hydrogen sulphide)
- VII. AICl₃ (Aluminium chloride)
- VIII. (NH₄)₂CO₃ (Ammonium carbonate)
- IX. CuSO₄ (Copper sulphate)
- X. Na₂C₂O₄ (Sodium oxalate)
- I. CH₃OH (Methyl alchohol/Methanol)
- II. CS₂ (carbon disulphide)
- III. C₈H₁₈ (Octane)
- IV. CH₃COOH (Acetic acid
- V. C₁₂H₂₂O₁₁ (Sucrose)

- VI. CO(NH₂)₂ (Urea)
- VII. $C_9H_8O_4$ (Asprin)
- VIII. HNO₃ (Nitric acid)
- IX. CCl₄ (Carbon tetrachloride)
- X. C₈H₉NO₂ (Paracetamol)

(R.A.M.: H=1. C=12, N=14, 0=16, Na=23, Mg=24, Al=27,S=32,Cl=35.5, S=32)

- 1. In 67g of Sodium oxalate calculate,
 - a. The number of Sodium Oxalate moles
 - b. The number of Oxygen moles
 - c. Total number of atoms
 - d. The number of carbon atoms
- 2. In 2.5mol of Ammonium carbonate calculate,
 - a. The mass
 - b. Number of Hydrogen atoms
 - c. Total number of atoms

3. 500mg of Paracetamol is included in the tablet of Paracetamol use as a pain killer. Find the number of moles of Paracetamol include in a tablet. Find the number of moles of each element using that.