

**S3 Chemistry Quiz**  
**Basic Chemical Calculation 1**

Complete the following table with the given R.A.M:

Element	R.A.M.	Element	R.A.M.	Element	R.A.M.
H	1.0	O	16.0	S	32.0
C	12.0	Mg	24.0	Cl	35.5
N	14.0	Al	27.0	Cu	63.5

**NOTE: take not more than 4 significant figures**

Compound	Mass / g	Molar mass / g mol <sup>-1</sup>	Number of mole
Mg(OH) <sub>2</sub>	74.0		
AlCl <sub>3</sub>			0.70
NH <sub>4</sub> HCO <sub>3</sub>	83.0		
CuSO <sub>4</sub> •5H <sub>2</sub> O			0.25
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	36.0		
CO <sub>2</sub>			3.50
H <sub>2</sub> O	3.0		

**The End**

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**Suggested Answer**

Complete the following table with the given R.A.M:

Element	R.A.M.	Element	R.A.M.	Element	R.A.M.
H	1.0	O	16.0	S	32.0
C	12.0	Mg	24.0	Cl	35.5
N	14.0	Al	27.0	Cu	63.5

**NOTE: take not more than 4 significant figures**

Compound	Mass / g	Molar mass / g mol <sup>-1</sup>	Number of mole
Mg(OH) <sub>2</sub>	74.0	58.0	1.276
AlCl <sub>3</sub>	93.45	133.5	0.70
NH <sub>4</sub> HCO <sub>3</sub>	83.0	79.0	1.051
CuSO <sub>4</sub> •5H <sub>2</sub> O	62.38	249.5	0.25
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	36.0	180.0	0.2
CO <sub>2</sub>	154.0	44.0	3.50
H <sub>2</sub> O	3.0	18.0	0.1667

**The End**