

1. Find Avg Atomic Mass Of Ag from table given.

Isotope (Silver Ag)	Abundance
^{107}Ag	51.86 %
^{109}Ag	48.14 %

2. If you are provided with 6.022×10^{20} atoms of Ca, then how many moles of Ca atoms do you have?

3. Calculate the atomic (average) of chlorine using the following data

	% Natural Abundance	Molar Mass
^{35}Cl	75.77	34.9689
^{37}Cl	24.23	36.9659

4. In three moles of ethane (C_2H_6), calculate the following:

- (i) Number of moles of carbon atoms.
- (ii) Number of moles of hydrogen atoms.
- (iii) Number of molecules of ethane.

5. The ratio of mass of oxygen and nitrogen of a particular gaseous mixture is 1: 4. The ratio of number of their molecule is

- (A) 1:4
- (B) 7:32
- (C) 1:8
- (D) 3:16