

Worksheet

Class-IX

ATOMS AND MOLECULES

Q.1 Fill In The Blanks

1. During a chemical reaction, the sum of the _____ of the reactants and products remain unchanged.
2. In a pure chemical compound, elements are always present in a _____ proportion by mass.
3. Clusters of atoms that act as an ion are called _____ ions.
4. In ionic compounds, the charge on each ion is used to determine the _____ type of compound.
5. The Avogadro constant _____ is defined as the number of atoms in exactly _____ of carbon-12
6. Mass of 1 mole of a substance is called its _____.
7. The abbreviation used for length names of elements are termed as their _____.
8. A chemical formula is also known as a _____.
9. Those ions which are formed from single atoms are called _____.
10. Ionic compounds are formed by the combination between _____ an _____.
11. The valency of an ion is _____ to the charge on the ion.
12. Mole is a link between the _____ and _____.
13. The SI unit of amount of a substance is _____.

Very Short Answer Questions

1. Define term mole.
2. What is Avogadro's Number?
3. What is gram atomic weight?
4. What is the difference between CO_2 and 2CO_2 ?
5. How many moles of sodium atoms correspond to 1.56×10^{21} atoms of sodium?