

1) Determine the number of **moles (n)** for each of the following substances:

- a) 1.806×10^{24} atoms of copper

- b) 1.505×10^{24} molecules of hydrogen gas

- c) 9.81×10^{24} molecules of carbon dioxide gas

- d) An aluminium sheet that contains 1.204×10^{23} atoms

2) Determine the **total** number of **atoms (N)** for each of the following substances:

- a) 3.0 mol of sodium atoms

- b) 0.8 mol of mercury

- c) 2 mol of carbon dioxide gas

- d) 1 mol of ethanoic acid (CH_3COOH)