

A simple model of the atom (protons, neutrons, electrons)

Q1. (2020)

0 1 . 1 An aluminium atom is represented as:



Give the number of electrons and neutrons in the aluminium atom.

[2 marks]

Number of electrons _____

Number of neutrons _____

Q2. (2023)

0 4 . 2 Table 1 shows the mass of a proton and of an electron.

Table 1

Name of particle	Mass in kg
Proton	1.673×10^{-27}
Electron	9.109×10^{-31}

Calculate how many times heavier a proton is than an electron.

[2 marks]

Times heavier a proton is than an electron = _____

Q3. (2023)

A bromine atom can be represented as ${}_{35}^{81}\text{Br}$.

0 4 . 3 What is the number of neutrons in this bromine atom?

[1 mark]

Q4. (2023)

0 4 . 4 What is the number of electrons in a bromide ion?

[1 mark]