

5 Symbols representing four particles are shown.



The letters are **not** the chemical symbols.

Which particles have the same number of neutrons?

- A** W and X^{2+} **B** W and Z **C** X^{2+} and Y **D** Y and Z

5 Which statement about atoms or ions is correct?

- A** The mass number of an atom is the total number of nucleons and protons.
B The electronic configuration of an aluminium ion, Al^{3+} , is 2,8,3.
C Hydrogen is the only atom that has an incomplete first electron shell.
D Most of the volume of an atom is taken up by its nucleus.

3 Which statement defines nucleon number?

- A** It is the total number of protons in the nucleus of an atom.
B It is the total number of electrons surrounding the nucleus of an atom.
C It is the total number of neutrons in the nucleus of an atom.
D It is the total number of protons and neutrons in the nucleus of an atom.