Worksheet 2.4

Atomic structure

1 a Complete these sentences by deleting the incorrect word in each pair.

Atoms of the same element have the same number of protons / neutrons. The number of protons / neutrons in an atom is called its proton / mass number. The number of protons plus the number of electrons / neutrons in an atom gives the atomic / nucleon number. As an atom is neutral, the number of negative electrons / neutrons in an atom is always the same as the number of positive protons in the nucleus.

b Complete the following sentences using the words below to fill the gaps.

- 2 For each of these atoms of the following elements, give the proton number (atomic number) and the nucleon number (mass number).
 - a helium (He) has 2 protons, 2 neutrons and 2 electrons
 - b fluorine (F) has 9 protons, 10 neutrons and 9 electrons.....
 - c iron (Fe) has 26 protons, 30 neutrons and 26 electrons
 - d uranium (U) has 92 protons, 140 neutrons and 92 electrons