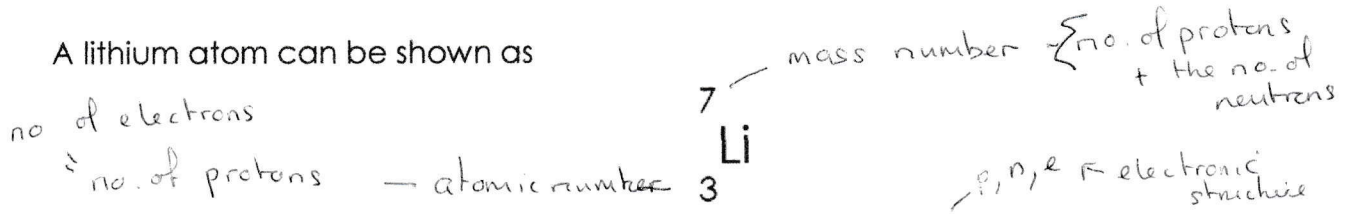


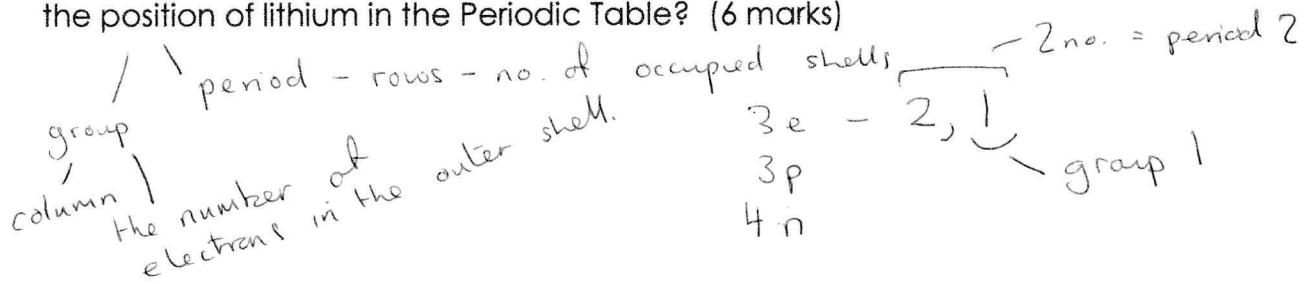
### Teacher Modelled Question

Copy down the answer modelled by your teacher.

A lithium atom can be shown as



What can be deduced from this information about the structure of a lithium atom and the position of lithium in the Periodic Table? (6 marks)



The atomic number of lithium is 3. This means there are 3 electrons and 3 protons in a lithium atom.

The mass number of lithium is 7. This is the number of protons and neutrons added together. Therefore a lithium atom has 4 neutrons.

The electronic structure of Lithium is 2, 1. As there is one electron in the outer shell,

this means lithium is in group 1.

As there are 2 numbers, this means there are 2 occupied shells of electrons. This means lithium is in period 2.