



Key

○ Neutron

● Proton

X Electron

1. How many protons are there in the nucleus? .....
2. Now many neutrons are in the nucleus? .....
3. How many electrons would this element have? .....
4. How did you work this out? .....
5. What is the atomic number of this element? .....
6. How do you know this? .....
7. What is the mass number? How did you work this out? ....
8. Put the correct number of electrons in each shell.
9. What group does this element belong to? .....
10. What name is given to this group? .....
11. This element is .....

## Answers

The top label is 'nucleus' the others are all 'shell'.

1. 11
2. 12
3. 11
4. The number of electrons is the same as the number of protons
5. 11
6. It is the number of protons
7. 23 (protons+neutrons)
8. 2, 8, 1
9. 1
10. alkali metals
11. sodium