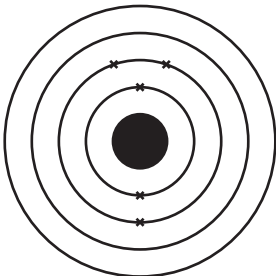
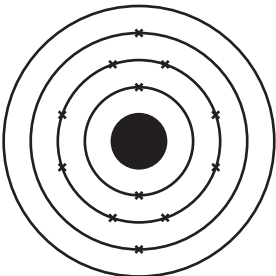
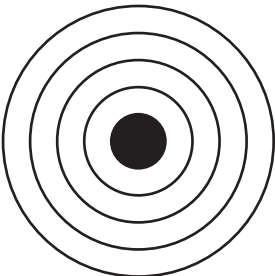
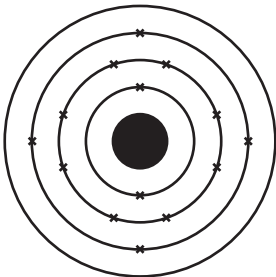
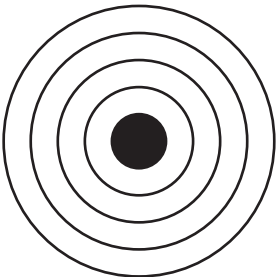
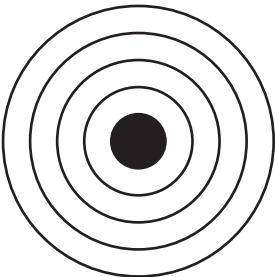


C4.8b Electron arrangements

1 Copy and complete these diagrams of electron shells. The first one is done for you.

(Hint: you do not need to use all the shells in every diagram.)

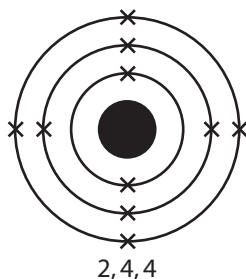
A  2,5	B  _ _ _ _	C  2,7
D  _ _ _ _	E  2,8,8	F  2,8,8,2

2 Which elements are shown in question 1? Choose the elements from the table opposite.

3 Explain how you worked out your answers to question 2.

Element	Atomic number
lithium	3
nitrogen	7
fluorine	9
magnesium	12
silicon	14
sulfur	16
argon	18
calcium	20

4 Sam was asked to draw the electron arrangement of neon, atomic number 10. His drawing is shown below.



a Explain what is wrong with this diagram.

b Draw the correct diagram for the electron arrangement of neon and write the arrangement in numbers below the diagram.

5 Why are the electron arrangements of atoms important to chemists?