

- 3 a Complete the table below to show the subatomic particles present in these atoms.

Element	Protons	Neutrons	Electrons	Nucleon number
Li		4		7
Na			11	23
P	15			31
Pb			82	207

- b Chlorine atoms come in two forms: $^{35}_{17}\text{Cl}$ and $^{37}_{17}\text{Cl}$.

- i How do you know that they are both atoms of the same element?

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- ii What is the difference between the two types, or isotopes, of chlorine?

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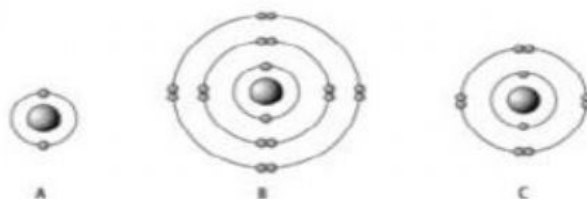
- iii Which element is $^{12}_6\text{X}$ an isotope of?



Explain your answer.

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- a Diagrams A, B and C represent the atoms of three elements. Name the elements.

A B C

- b These elements are all very unreactive gases. What can be said about the electron arrangements of these atoms?

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