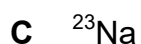
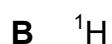


3 Which atom has an equal number of protons, neutrons and electrons?



4 The only naturally occurring isotopes in a sample of europium are ^{151}Eu and ^{153}Eu . This sample of europium has a relative atomic mass, A_r , of 152.

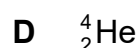
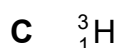
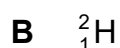
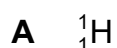
What is the percentage of ^{151}Eu present in this sample to three significant figures?

A 0.987%**B** 50.0%**C** 76.0%**D** 98.7%

5 Which statement about potassium chloride is correct?

A It has a high melting point because it is a giant structure with strong covalent bonds.**B** It conducts electricity when solid because of its oppositely charged ions.**C** It conducts electricity when molten because its ions can move.**D** It is insoluble in water because of its strong bonding.

3 Which atom has twice as many neutrons as protons?



4 What is the nucleon number of an atom?

A the number of electrons, neutrons and protons in the nucleus**B** the number of neutrons and protons in the nucleus**C** the number of neutrons in the nucleus**D** the number of protons in the nucleus