

39 A nucleus of polonium, ${}_{84}^{214}\text{Po}$, decays by emitting an α -particle to become a nucleus of lead.

The nucleus of lead is also unstable and decays by emitting a β^- particle to form a nucleus of bismuth which then decays by emitting a β^- particle to produce a nucleus X.

What is the number of neutrons in nucleus X?

A 126

B 128

C 130

D 210