

39 A nucleus emits a β^- particle.

What is the change to the proton number and to the nucleon number of the nucleus?

	proton number	nucleon number
A	-1	+1
B	0	-1
C	+1	-1
D	+1	0

40 How many up quarks and how many down quarks are in a nucleus of the nuclide $^{37}_{12}\text{C}$?