

- 28 The nuclide  $^{238}_{92}\text{U}$  emits an  $\alpha$  particle. The resulting nuclide decays by emitting a  $\beta$  particle to form a new nuclide.

What are the nucleon number and the proton number of the new nuclide?

	nucleon number	proton number
A	233	90
B	234	91
C	235	90
D	237	88

- 29 In a nuclear fission reaction, plutonium-239 breaks into two smaller nuclei, one of which is