

- 38** The nucleus of a radioactive isotope of an element emits an alpha particle. The daughter nucleus then emits a beta particle and then the daughter nucleus of that reaction emits another beta particle.

Which statement describes the final nuclide that is formed?

- A** It is a different isotope of the original element.
- B** It is a nuclide of a different element of higher proton number.
- C** It is a nuclide of the same element but with different proton number.
- D** It is identical to the original nuclide.

- 39** A nuclear reaction is shown