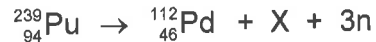


- 29** In a nuclear fission reaction, plutonium-239 breaks into two smaller nuclei, one of which is palladium-112. Three neutrons are produced in the reaction.

The equation for this reaction is shown.



What is the nuclide notation for X?

A ${}_{48}^{124}\text{X}$

B ${}_{48}^{126}\text{X}$

C ${}_{47}^{127}\text{X}$

D ${}_{45}^{127}\text{X}$

- 30** What is **not** a possible effect of ionising radiation on the body?