

- 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 $\begin{array}{c} {}^{124} \\ 48 \end{array} \text{X}$

B $\begin{array}{c} {}^{126} \\ 48 \end{array} \text{X}$

C $\begin{array}{c} {}^{127} \\ 47 \end{array} \text{X}$

D $\begin{array}{c} {}^{127} \\ 45 \end{array} \text{X}$

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