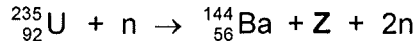


- 39** When a nucleus of uranium-235 absorbs a neutron in a nuclear reactor it undergoes fission to form various products and release further neutrons.

In one nuclear reaction involving the fission of uranium-235, barium-144 and another element, **Z** are products. Two neutrons are also released when these products are formed. The reaction is shown in the equation.



How many neutrons are there in the nucleus of **Z**?

- A** 34                      **B** 36                      **C** 53                      **D** 54