

- 39** The decay of a nucleus of neptunium is accompanied by the emission of a  $\beta$ -particle and  $\gamma$ -radiation.

What effect (if any) does this decay have on the proton number and on the nucleon number of the nucleus?

	proton number	nucleon number
<b>A</b>	increases	decreases
<b>B</b>	decreases	increases
<b>C</b>	unchanged	decreases
<b>D</b>	increases	unchanged

**Space for working**