

- 40** An actinium nucleus has a nucleon number of 227 and a proton number of 89. It decays to form a radium nucleus, emitting a beta particle and an alpha particle in the process.

What are the nucleon number and the proton number of this radium nucleus?

	nucleon number	proton number
<b>A</b>	223	87
<b>B</b>	223	88
<b>C</b>	224	87
<b>D</b>	225	86

**Space for working**