

**37** The gold nucleus  $^{185}_{79}\text{Au}$  undergoes alpha decay.

What are the nucleon (mass) number and proton (atomic) number of the nucleus formed by this decay?

	nucleon number	proton number
<b>A</b>	183	79
<b>B</b>	183	77
<b>C</b>	181	77
<b>D</b>	181	75

**38** The nuclei of the isotopes of an element all contain the same number of a certain particle