

- 39** The unstable nuclide  $^{218}_{84}\text{X}$  decays through a sequence of emissions of  $\alpha$  and  $\beta^-$  particles to form the stable nuclide  $^{210}_{83}\text{Y}$ .

How many  $\alpha$  and  $\beta^-$  particles are emitted during this decay process?

	$\alpha$ -particles	$\beta^-$ particles
<b>A</b>	1	1
<b>B</b>	2	1
<b>C</b>	2	3
<b>D</b>	3	2