

- 30** The table below shows the count-rate recorded by a Geiger-Müller counter at a point in a laboratory at various times, with and without a radioactive source in position.

time / days	count rate / s <sup>-1</sup>	
	<i>with source</i>	<i>without source</i>
10	60	20
30	30	20
90	20	20

From these readings, what is the half-life of the source?

- A** 10 days                      **B** 15 days                      **C** 20 days                      **D** 30 days

**END OF PAPER**