

- 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 ⁻¹ | |
|-------------|------------------------------|-----------------------|
| | <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