

- 40** A counter recording radioactive decays from a radioactive source gives the following counts in equal intervals of time.

time / min	counts
0–10	424
10–20	395
20–30	413
30–40	363
40–50	366
50–60	294
60–70	301
70–80	253
80–90	212

What can be deduced from these readings?

- A** that radioactivity is random and that the half-life is 90 minutes
- B** that radioactivity is random and that the half-life is uncertain
- C** that radioactivity is spontaneous and that the half-life is 90 minutes
- D** that radioactivity is spontaneous and that the half-life is uncertain

**Space for working**