

36 The reading on a detector placed near a radioactive material is 536 counts per second.

The background count rate is 44 counts per second.

The half-life of the radioactive material is 34 hours.

What is the reading on the detector after 68 hours?

- A** 44 counts per second
- B** 123 counts per second
- C** 134 counts per second
- D** 167 counts per second