

35 A detector placed near a radioactive isotope gives a measured count rate of 800 counts/minute. The half-life of the isotope is three hours.

The background count rate is 32 counts/minute.

What is the count rate on the detector after six hours?

- A** 192 counts/minute
- B** 200 counts/minute
- C** 224 counts/minute
- D** 232 counts/minute