

33 Some students set up an experiment to measure the count rate for a radioactive source.

First, they measure the radioactive background count rate in the laboratory by taking three measurements. Each measurement is taken over a 10-minute period.

The table shows their results.

number of counts in 10 minutes		
first measurement	second measurement	third measurement
170	164	185

Next, the students measure the counts near the radioactive source. This count rate is measured as 949 counts per minute.

What is the corrected count rate for the source?

- A** 932 counts per minute
- B** 776 counts per minute
- C** 430 counts per minute
- D** 78 counts per minute