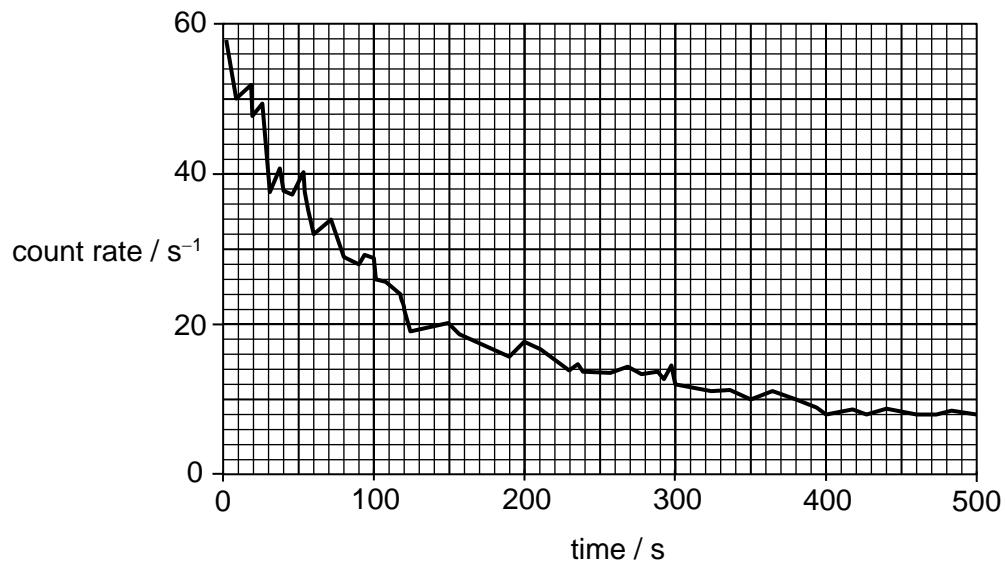


- 30** An experiment is carried out in which the count rate is measured at a fixed distance from a sample of a certain radioactive material. The figure below shows the variation of count rate with time.



What is the approximate half-life of the material?

**A** 60 s

**B** 80 s

**C** 100 s

**D** 120 s