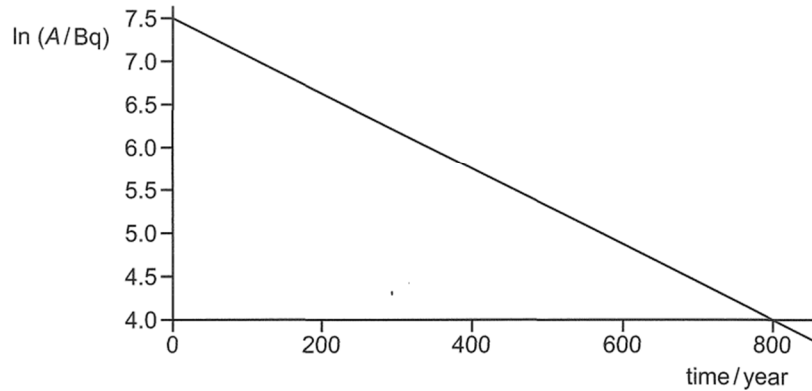


- 39 A graph of the natural logarithm of the activity A of a radioactive source plotted against time is given.



What is the half-life of the source in years?

- A 0.0044
 - B 160
 - C 400
 - D 860
- 40 Nuclei of atoms can exist in excited states. When an excited nucleus returns to its state of lowest