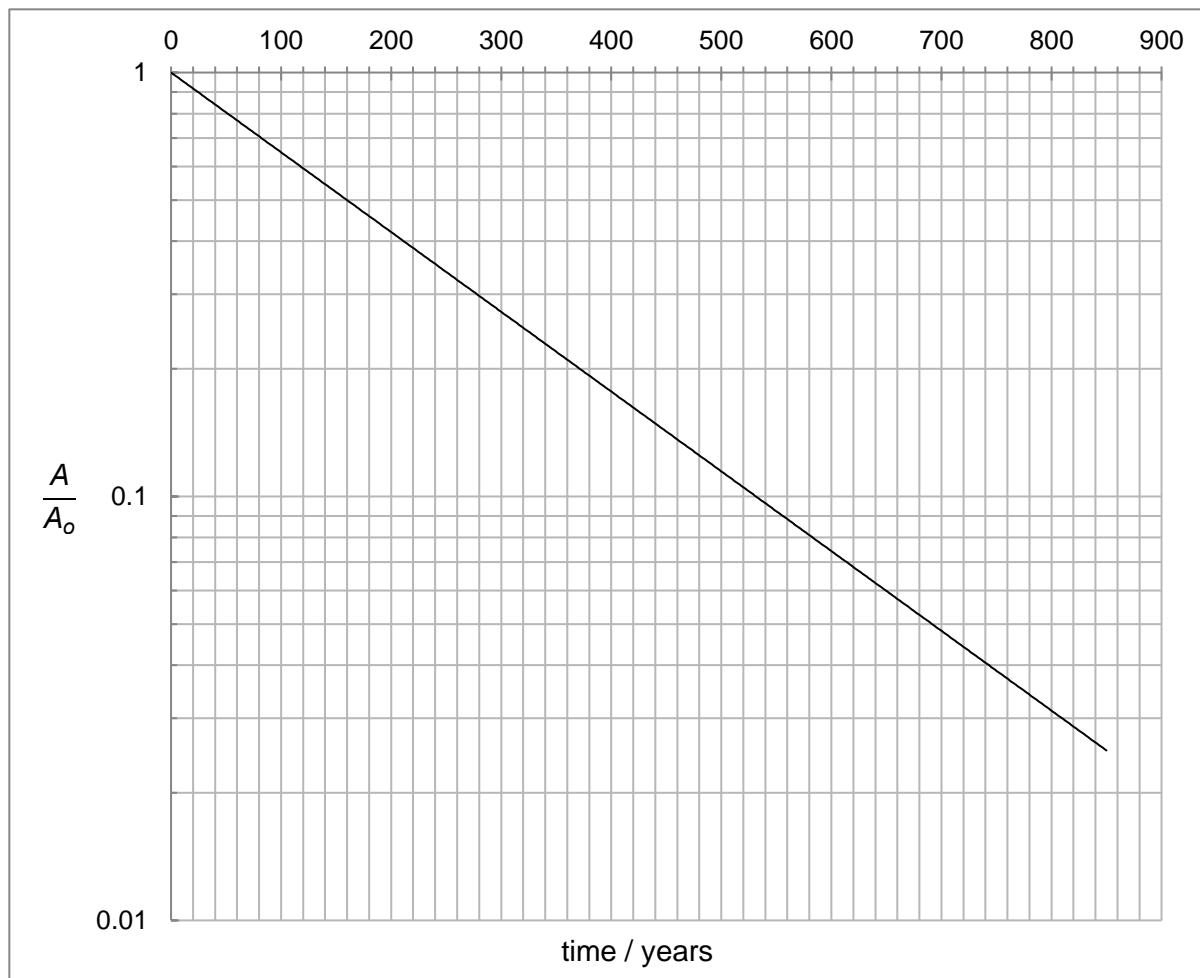


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A radioactive source has activity, A , and initial activity A_o . A graph of $\frac{A}{A_o}$ against time for this radioactive source is plotted on a logarithmic scale as shown below.



What is the half-life of the radioactive source?

- A 0.0017 years
- B 160 years
- C 280 years
- D 420 years