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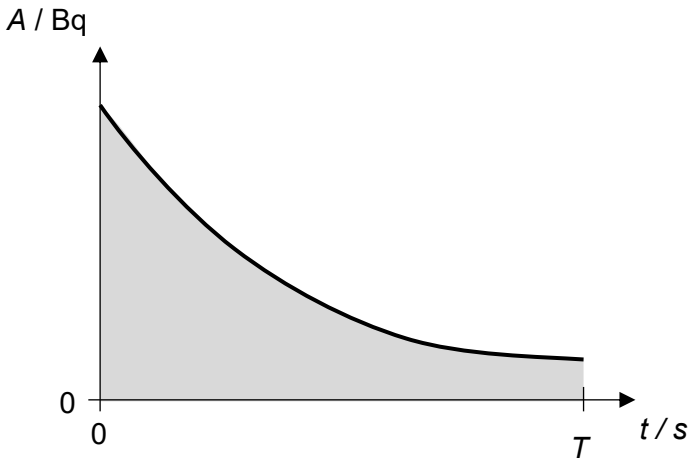
The graph shows the variation with time t of the activity A of a pure sample of a radioactive nuclide. The total energy released due to radioactive decay of the sample in time T is E. The area of the shaded portion is S.



What does the quantity $\frac{E}{S}$ represent?

A

The number of decays which occur in time T

B

The average power due to radioactive decay

C

The average energy produced in time T

D

The energy released for each radioactive decay