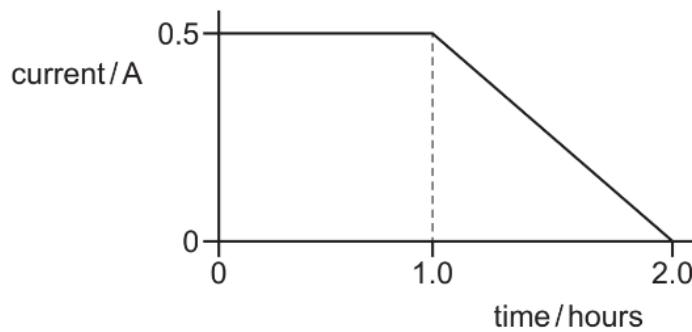


- 21** A mobile phone battery is charged by connecting it to a constant potential difference of 5.0V.

After a time of 1.0 hour, the initial current of 0.50 A slowly decreases to zero, as shown.



What is the best estimate of the energy transferred to the battery during the time of 2.0 hours shown in the graph?

A 2700 J

B 9000 J

C 14 000J

D 18 000J

