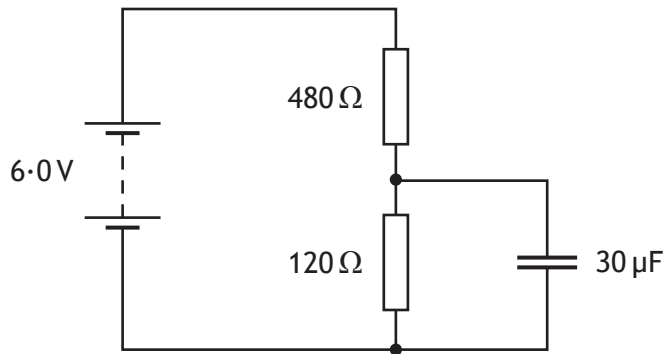**18.** A circuit containing a capacitor is set up as shown.

The supply has negligible internal resistance.

The maximum energy stored in the capacitor is

A $\quad 5\cdot4 \times 10^{-4}$ J

B $\quad 3\cdot5 \times 10^{-4}$ J

C $\quad 1\cdot4 \times 10^{-4}$ J

D $\quad 3\cdot4 \times 10^{-5}$ J

E $\quad 2\cdot2 \times 10^{-5}$ J.