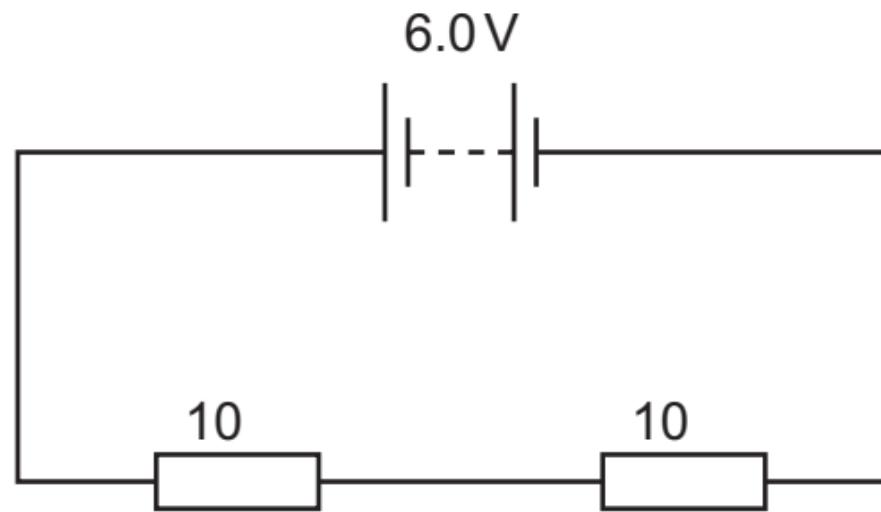


**30** A battery of negligible internal resistance is connected to two  $10\ \Omega$  resistors in series.



What charge flows through each of the  $10\ \Omega$  resistors in 1 minute?

**A**  $0.30\text{ C}$

**B**  $0.60\text{ C}$

**C**  $3.0\text{ C}$

**D**  $18\text{ C}$

**31** Two wires P and Q have resistances  $R_p$  and  $R_q$ , respectively. Wire P is twice as long as wire Q.