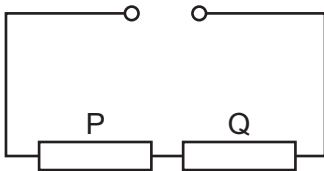


- 33** A circuit contains two resistors, P and Q, and a power supply of negligible internal resistance, as shown.



The current in resistor P is  $2.0\text{ A}$  and the power dissipated by resistor P is  $18\text{ W}$ .

Resistor Q dissipates  $240\text{ J}$  of energy when a charge of  $40\text{ C}$  passes through it.

What is the electromotive force (e.m.f.) of the power supply?

- A**  $3.0\text{ V}$                       **B**  $6.0\text{ V}$                       **C**  $9.0\text{ V}$                       **D**  $15\text{ V}$