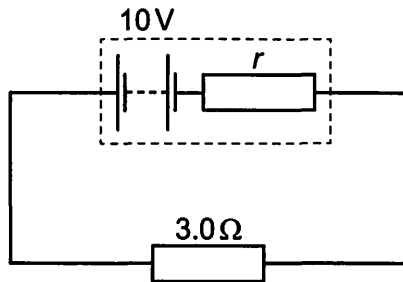


- 20** A 10 V battery is connected to a  $3.0\,\Omega$  resistor. The battery has an internal resistance  $r$  and the power dissipated in the  $3.0\,\Omega$  resistor is 12 W.



What is the value  $r$  of the internal resistance?

- A**  $0.060\,\Omega$       **B**  $0.50\,\Omega$       **C**  $2.0\,\Omega$       **D**  $4.3\,\Omega$