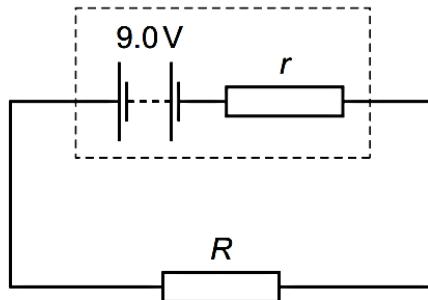


- 22 A simple circuit is formed by connecting a resistor of resistance R between the terminals of a battery of electromagnetic force (e.m.f.) 9.0 V and constant internal resistance r .



A charge of 6.0 C flows through the resistor in a time of 2.0 minutes causing it to dissipate 48 J of thermal energy.

What is the internal resistance r of the battery?

- A 0.17 Ω B 0.33 Ω C 20 Ω D 160 Ω