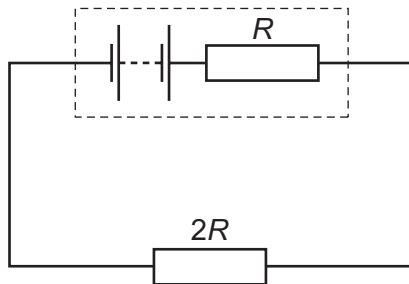


- 33** The diagram shows an electric circuit in which the resistance of the external resistor is $2R$ and the internal resistance of the source is R .



What is the ratio $\frac{\text{power in external resistor}}{\text{power in internal resistance}}$?

A $\frac{1}{4}$

B $\frac{1}{2}$

C 2

D 4

- 34** Two lamps are connected in series to a 250V power supply. One lamp is rated 240V 60W and