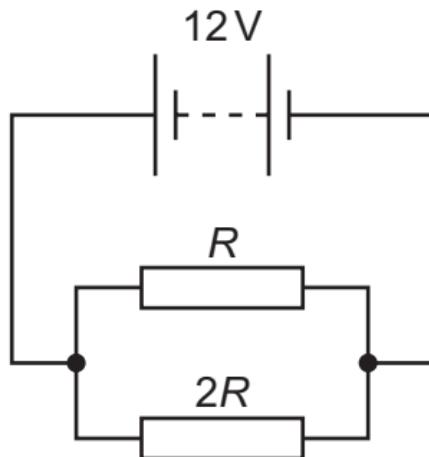


- 31 Two resistors of resistances  $R$  and  $2R$  are connected in parallel with a battery of electromotive force (e.m.f.) 12V and negligible internal resistance.



The total power dissipated by the two resistors is 36 W.

What is the value of  $R$ ?

A  $0.50\Omega$

B  $2.7\Omega$

C  $4.0\Omega$

D  $6.0\Omega$