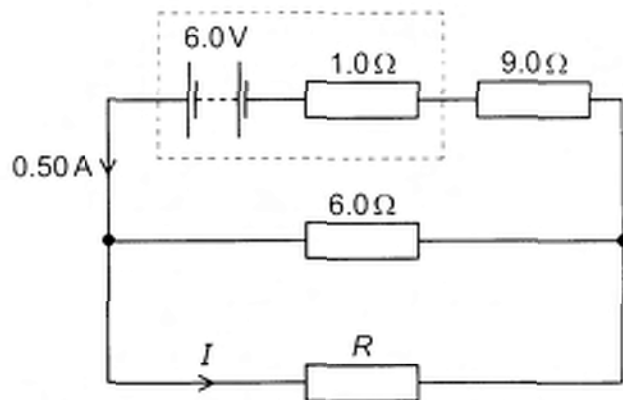


- 28 A battery of electromotive force (e.m.f.) 6.0 V and internal resistance $1.0\ \Omega$ is connected in series to a $9.0\ \Omega$ resistor and a parallel combination of resistors of resistance $6.0\ \Omega$ and R . The battery delivers a current of 0.50 A to the circuit.



What are the values of the unknown current I and resistance R as shown in the diagram?

	I/A	R/Ω
A	0.17	9.0
B	0.25	4.0
C	0.25	6.0
D	0.33	3.0