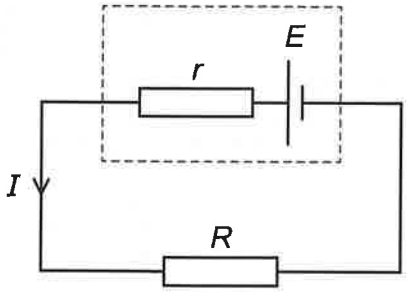
19 A cell of electromotive force (e.m.f.) E and internal resistance r is connected to a resistor of resistance R, as shown.



When $R = 4.0\,\Omega$ the current $I = 0.50\,A$.

When $R = 10\,\Omega$ the current $I = 0.25\,A$.

What are the e.m.f. E and the internal resistance r of the cell?

	e.m.f. E / V	internal resistance r / Ω
A	2.0	1.0
B	2.0	2.0
C	3.0	1.0
D	3.0	2.0