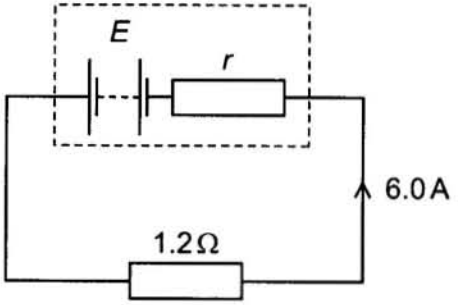
27 A battery of internal resistance r and e.m.f. E can supply a current of 6.0 A to a resistor of resistance 1.2 Ω. The circuit is shown in the diagram.



When the resistor is changed to one having a value of 1.6 Ω, the current becomes 5.0 A.

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

	E/V	r/Ω
A	7.6	0.073
B	12	2.0
C	12	0.80
D	15	8.0