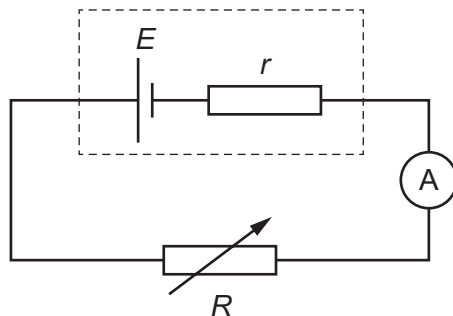


- 35** A cell has internal resistance r and electromotive force (e.m.f.) E . The cell is connected in series with an ammeter and a variable resistor of resistance R .



When R is $10\,\Omega$ the ammeter reads $0.3\,\text{A}$.

When R is $5\,\Omega$ the ammeter reads $0.4\,\text{A}$.

What is the value of E ?

- A** $0.5\,\text{V}$ **B** $2\,\text{V}$ **C** $3\,\text{V}$ **D** $6\,\text{V}$