

- 35** A cell of internal resistance $2.0\ \Omega$ and electromotive force (e.m.f.) $1.5\ \text{V}$ is connected to a resistor of resistance $3.0\ \Omega$.

What is the potential difference across the $3.0\ \Omega$ resistor?

- A** $1.5\ \text{V}$ **B** $1.2\ \text{V}$ **C** $0.9\ \text{V}$ **D** $0.6\ \text{V}$

- 36** A $100\ \Omega$ resistor conducts a current with changing direction and magnitude as shown.