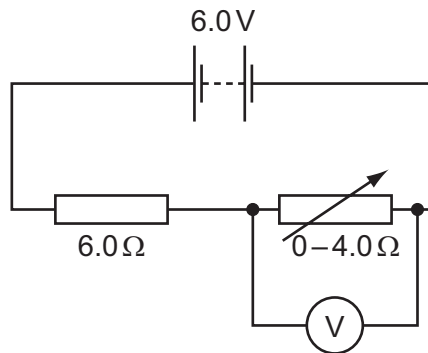


- 37** A battery of electromotive force (e.m.f.) 6.0 V and negligible internal resistance is connected in series with a resistor of resistance $6.0\ \Omega$ and a variable resistor of resistance from zero to $4.0\ \Omega$. A voltmeter is connected across the variable resistor. The resistance of the variable resistor is changed.



What is the range of the voltmeter reading?

- A** $0\text{ V} - 2.4\text{ V}$
- B** $0\text{ V} - 3.6\text{ V}$
- C** $2.4\text{ V} - 6.0\text{ V}$
- D** $3.6\text{ V} - 6.0\text{ V}$