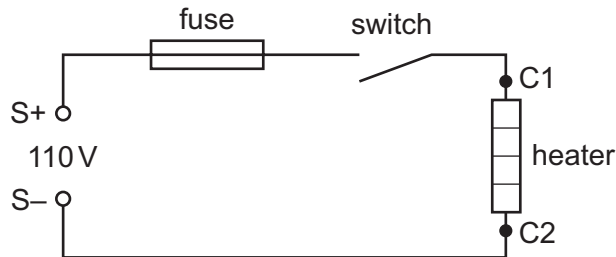


- 36 A 110 V supply of negligible internal resistance is connected to a heater through a fuse and a switch.



Terminals S+ and S- are the positive and negative terminals of the supply. Points C1 and C2 at either side of the heater are accessible for fault-finding.

A voltmeter is connected between S- and C1.

With the circuit working correctly, the voltmeter reading is noted with the switch closed.

A fault occurs and the voltmeter is again connected between S- and C1 with the switch closed.

Which fault would result in the same two voltmeter readings?

- A** a break in the wire of the heater
- B** a broken switch that cannot close correctly
- C** a melted fuse
- D** a short circuit in the heater

- 37 A network of resistors, each of resistance $1\ \Omega$, is connected as shown