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- 7 Fig. 7.1 shows a circuit that contains a battery, a switch, a voltmeter and three 40Ω resistors, R_1 , R_2 and R_3 .

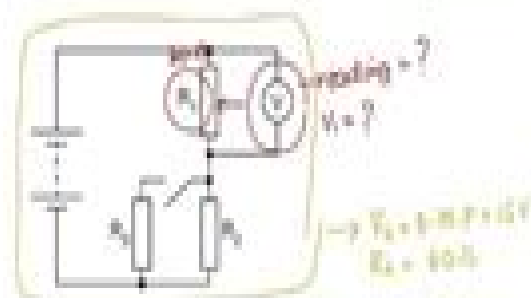


Fig. 7.1

The switch is open and resistors R_2 and R_3 form a potential divider.
if a switch arrangement consisting of 2/more resistors connected in parallel

- (a) Describe what is meant by a potential divider.

It divides a voltage / potential difference into smaller parts,
in proportion to the resistance.

[2]

- (b) The reading on the voltmeter is 2.0V .

- (i) Calculate the electromotive force (e.m.f.) of the battery.

9 ohm is 3 ohm parallel

$$2 \text{ ohm} \times 3 = 6 \text{ ohm}$$

4 for current flow

$$\text{e.m.f.} = 1.5 \times 4 = 6 \text{ V}$$

[1]

- (ii) The switch is closed.

Calculate the resistance of the complete circuit.

$$\frac{1}{R} = \frac{1}{40} + \frac{1}{40} + \frac{1}{40} = \frac{3}{40}$$

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