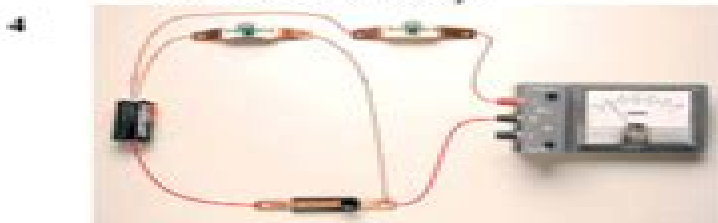


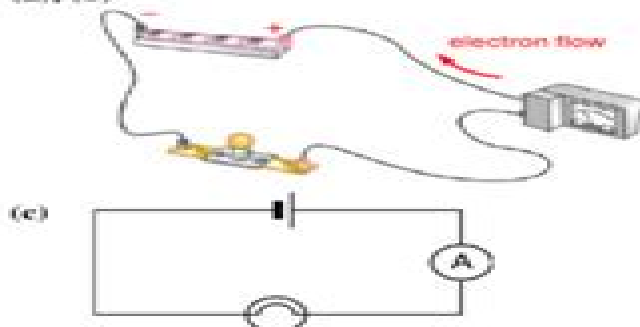
2 Electric Circuits

Practice 2.1 (p.60)

- C
 $Q = It = 0.3 \times 60 = 18 \text{ C}$
- D
- (a) No, the ammeter should be connected with the bulb in series.
(b) No, the positive terminal of the ammeter should be connected to the positive terminal of the battery.



- (a) Doubled
(b) Halved
- (a), (b)



- Current $= \frac{720 \text{ C}}{3600 \text{ s}} = 0.2 \text{ A}$
- Total charge $= It = 0.02 \times 0.1 = 2 \times 10^{-3} \text{ C}$
No. of electrons $= \frac{2 \times 10^{-3} \text{ C}}{1.60 \times 10^{-19} \text{ C}} = 1.25 \times 10^{16}$
- (a) 1.6 A

- (b) Current through Z
 $= 1.6 - 0.7 - 0.3 = 0.6 \text{ A}$

Practice 2.2 (p.68)

- B
Voltage across B $= 6 - 2 = 4 \text{ V}$
When 1 C of charge passes through B,
energy transferred $= VQ = 4 \times 1 = 4 \text{ J}$
 $\therefore$ B is incorrect.
- C
- A
The potential difference across any two points in a circuit is not affected by the earthing at A. There is a potential difference between points A and B, and hence a current flows through bulb X.
 $\therefore$ (1) and (3) are incorrect.
- C
In A, B and D, the total e.m.f. is equivalent to the e.m.f. of one cell. In C, the total e.m.f. is equivalent to that of two cells.
- B
 $V_1 = \epsilon$ and $V_3 = V_4$ because of parallel circuits. Also, $V_2, V_3, V_4 < \epsilon$.
- Potential difference $= \frac{E}{Q} = \frac{2270}{907} = 2.50 \text{ V}$
- Amount of charge $= \frac{E}{V} = \frac{30 \times 5}{3} = 50 \text{ C}$
- Current $= \frac{Q}{t} = \frac{E}{Vt} = \frac{10^6}{10^6 \times 0.1} = 100 \text{ A}$
- Energy
 $= QV = ItV = 0.5 \times 4 \times 60 \times 60 \times 5 = 36\,000 \text{ J}$
- (a) Potential difference $= 8 - 3 = 5 \text{ V}$
(b) 2 V
- (a) Amount of charge
 $= It = 3000 \times 10^{-3} \times 60 \times 60 = 10\,800 \text{ C}$
(b) Energy $= QV = 1 \times 1.2 = 1.2 \text{ J}$

Aplusphysics Circuits Resistance Answers

Nino Crisolo



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