

1. Nyatakan sama ada pernyataan di bawah BENAR atau PALSU. **TP 2**

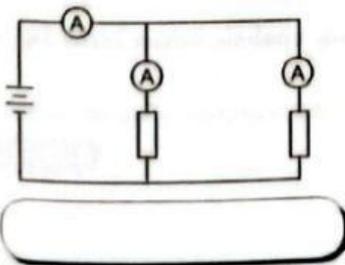
State whether the statements below are TRUE or FALSE.

- (a) Formula arus bagi litar bersiri ialah $I = I_1 + I_2$.
The formula for current in a series circuit is $I = I_1 + I_2$.
- (b) Formula rintangan bagi litar bersiri ialah $R = R_1 + R_2 + R_3$.
The formula for resistance in a series circuit is $R = R_1 + R_2 + R_3$.
- (c) Dalam litar selari, kecerahan mentol tidak akan bertambah walaupun voltan ditambah.
In a parallel circuit, the brightness of the bulb does not increase even when the voltage is added.
- (d) Dalam litar bersiri, sel kering menjadi lemah dengan cepat jika mentol ditambah.
In a series circuit, dry cells become weaker faster if bulbs are added.
- (e) Formula voltan dalam litar bersiri ialah $V = V_1 + V_2 + V_3$.
The formula for voltage in a series circuit is $V = V_1 + V_2 + V_3$.
- (f) Semua mentol menyala dengan kecerahan yang sama dalam litar bersiri.
All bulbs light up with equal brightness in a series circuit.

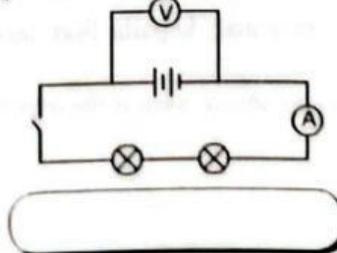
2. Nyatakan jenis-jenis litar berikut. **TP 2**

State the type of the following circuits.

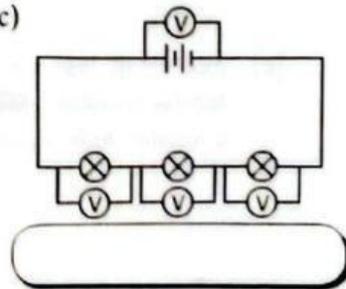
(a)



(b)



(c)



3. Rajah 1 menunjukkan satu litar elektrik.
Diagram 1 shows an electric circuit.

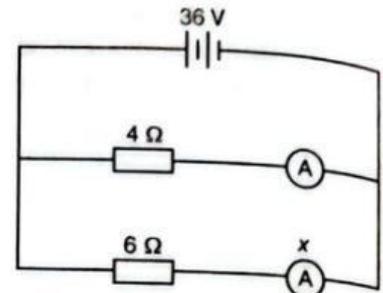
(a) Nyatakan jenis litar tersebut. **TP 2**
State the type of the circuit.

(b) Hitung keseluruhan rintangan dalam litar. **TP 3**
Calculate the total resistance in the circuit.

$R =$

(c) Apakah bacaan pada ammeter X? **TP 3**
What is the reading on ammeter X?

(d) Berikan dua kelebihan litar tersebut. **TP 2**
Give two advantages of this circuit.



Rajah 1 / Diagram 1

circuit

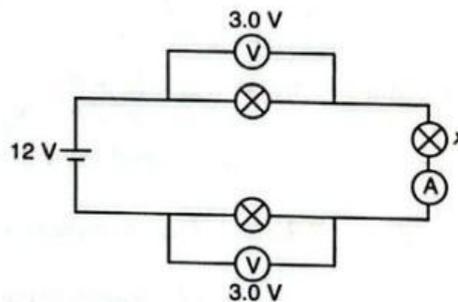
separately

affect

Each electrical equipment can be controlled . Adding more electrical equipment not the function of other electrical equipment in the

Bab 7

4. Rajah 2 menunjukkan satu litar bersiri.
Diagram 2 shows a series circuit.



Rajah 2 / Diagram 2

Jika rintangan bagi mentol X ialah $3\ \Omega$, hitung: **TP 3**
If the resistance for bulb X is $3\ \Omega$, calculate:

(a) Voltan yang merentasi mentol X.
The voltage across bulb X.

$V =$

(b) Arus yang melalui mentol X.
The current that goes through bulb X.

$I =$

(c) Jika sebiji lagi mentol ditambah kepada litar tersebut, apakah kesan terhadap kecerahan semua mentol? **TP 4**
If another bulb is added to the circuit, what is the impact on the brightness of all the bulbs?

All bulbs will be bright.

(d) Berikan dua sebab litar bersiri tidak sesuai digunakan untuk rumah. Berikan contoh bagi setiap sebab. (11)

Give two reasons for a series circuit is not suitable to be used for homes. Give an example for each reason.

KBAT Menganalisis

Waste

cause

same

i) All components are controlled by the [redacted] switch - [redacted] of electrical energy because if a person wants to watch a television, he needs to turn on a switch that will [redacted] other electrical equipment in the house to turn on too.

fails

broken

ii) When an equipment [redacted], the rest also fail - When one bulb is [redacted], the others will not be working as well.