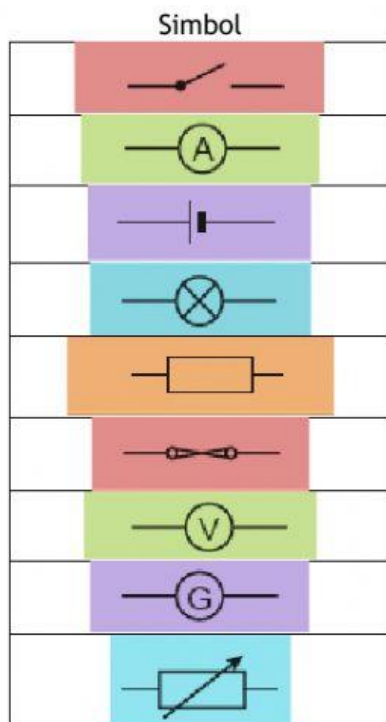


## Latihan Pengukuhan Arus, Voltan dan Rintangan bagi Litar Bersiri dan Litar Selari

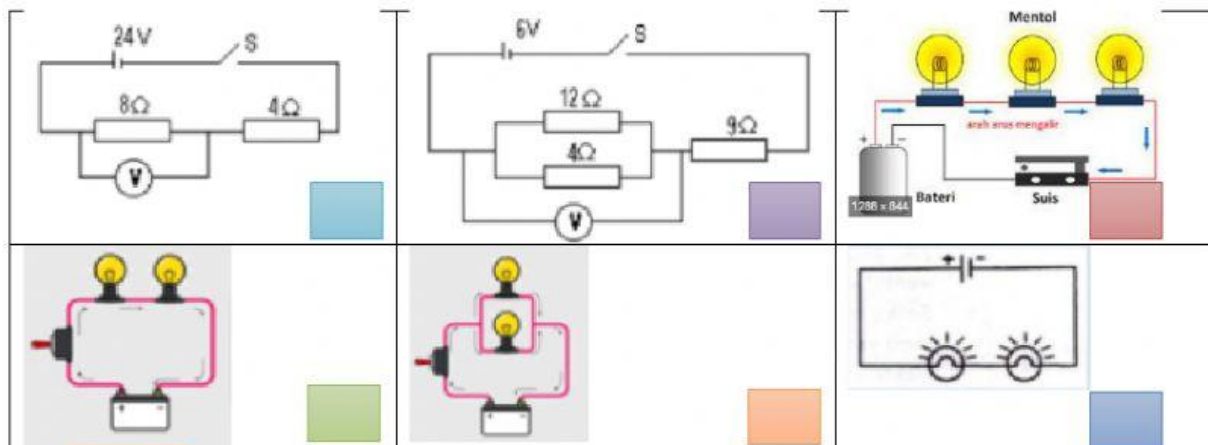
(Sains Tingkatan 2 - Subtopik 7.2)

1. Labelkan simbol komponen elektrik di bawah.

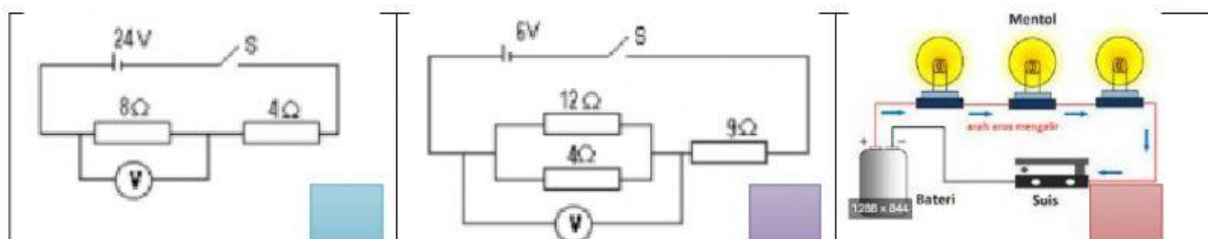


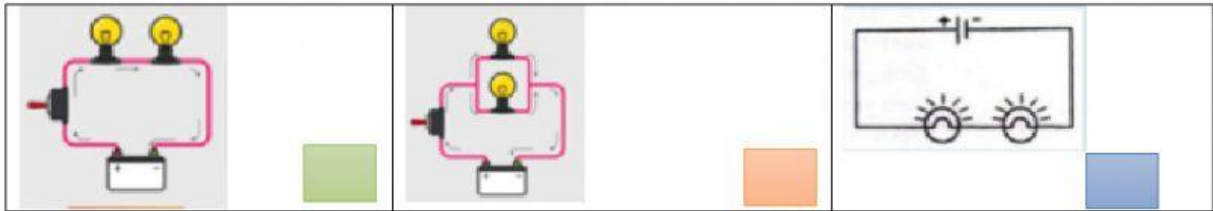
| Komponen elektrik     |
|-----------------------|
| Perintang             |
| Fius                  |
| Suis                  |
| Ammeter               |
| Voltmeter             |
| Galvanometer          |
| Mentol                |
| Perintang boleh laras |
| Bateri                |

2. Tandakan (v) pada litar selari.

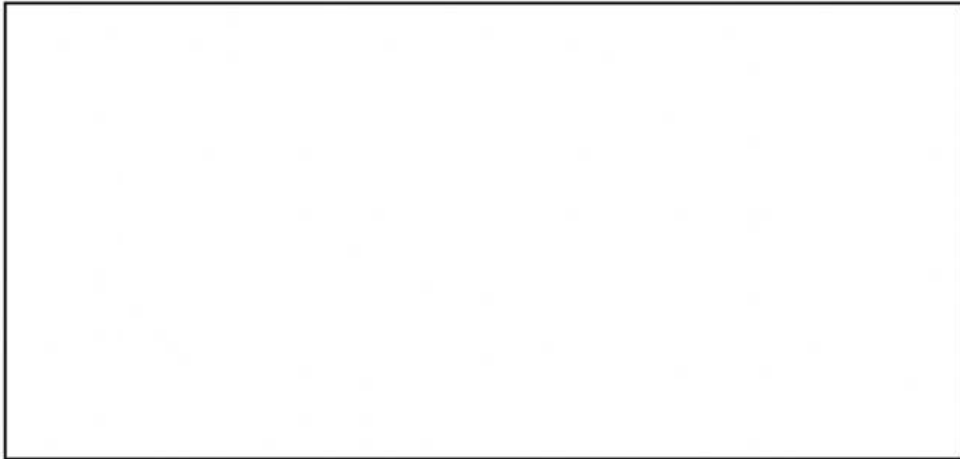


3. Tandakan (v) pada litar bersiri.

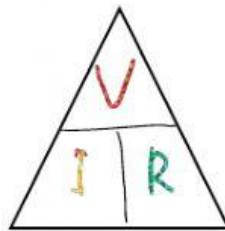
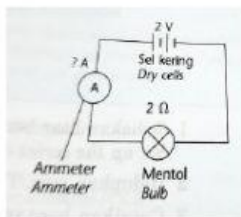




4. Tonton video di bawah dan jawab semua soalan.



a) Hitung nilai arus dalam litar ini.

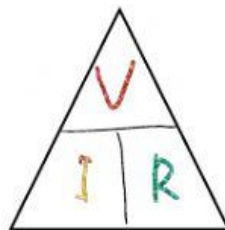
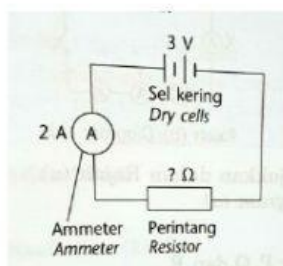


$$V = \boxed{\phantom{000}} \text{ V}$$

$$R = \boxed{\phantom{000}} \Omega$$

$$I = \frac{V}{R} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \boxed{\phantom{000}} \text{ A}$$

b) Hitung nilai rintangan dalam litar ini.

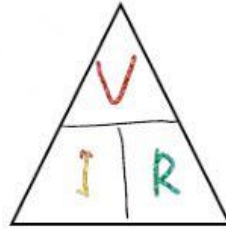
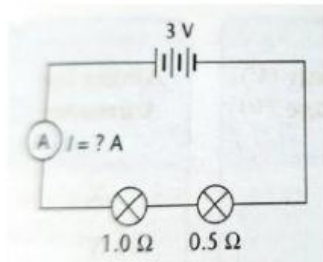


$$V = \boxed{\phantom{000}} \text{ V}$$

$$I = \boxed{\phantom{000}} \text{ A}$$

$$R = \frac{V}{I} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \boxed{\phantom{000}} \Omega$$

c) Hitung nilai rintangan dalam litar ini.



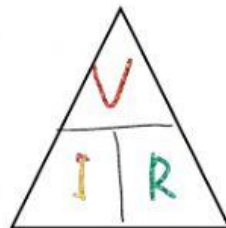
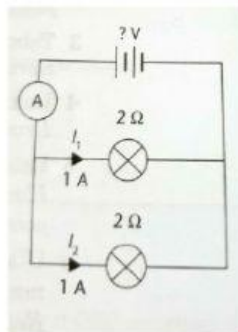
$$V = \boxed{\phantom{00}} \text{ V}$$

$$R = \boxed{\phantom{00}} \Omega$$

$$I = \frac{V}{R} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \boxed{\phantom{00}} \text{ A}$$

$$R = R_1 + R_2 = \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}} \Omega$$

d) Hitung nilai rintangan dalam litar ini.



$$I = \boxed{\phantom{00}} \text{ A}$$

$$R = \boxed{\phantom{00}} \Omega$$

$$V = I \times R$$

$$\rightarrow \boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}} \text{ V}$$

$$\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} + \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$R = \boxed{\phantom{00}} \Omega$$