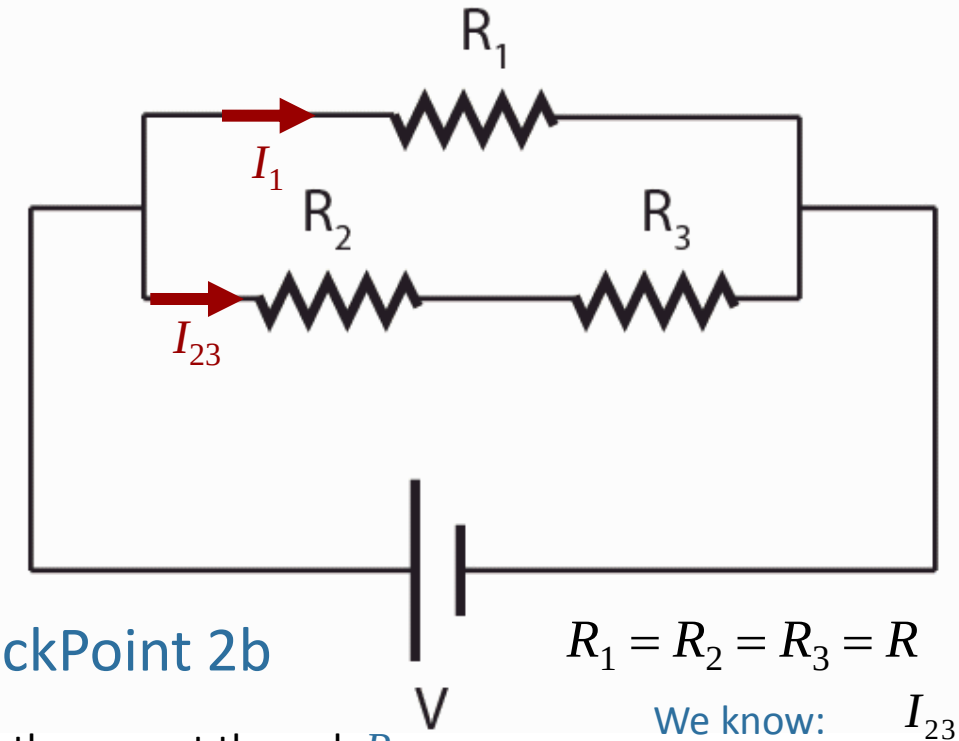
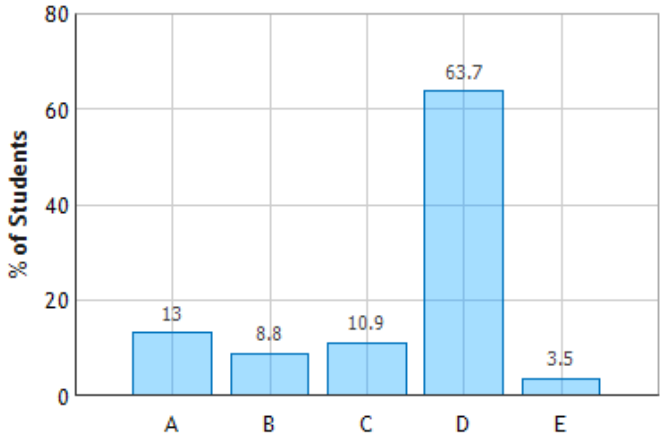
Checkpoint 2b





CheckPoint 2b

$R_1 = R_2 = R_3 = R$

Compare the current through R_1 with the current through R_2

A $I_1/I_2 = 1/2$

B $I_1/I_2 = 1/3$

C $I_1/I_2 = 1$

D $I_1/I_2 = 2$

E $I_1/I_2 = 3$

We know: $I_{23} = \dfrac{V}{R_2 + R_3}$

$\rightarrow \quad I_1 = I_{23}\dfrac{R_2 + R_3}{R_1}$

Similarly: $I_1 = \dfrac{V}{R_1}$

$\downarrow$

$$\frac{I_1}{I_{23}} = \frac{R_2 + R_3}{R_1} = 2$$