

Series Circuits

$I = V/R$

$R_t = R_1 + R_2 + R_3$

1) To solve for the total resistance, mathematically, you need to:

_____.

2) (MC) Which is the same everywhere in series circuits?

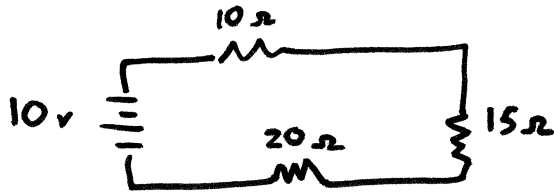
- A) Voltage B) Current C) Resistance

3) If you unplug one bulb from a 3 bulb series circuit, the other 2 bulbs will

_____.

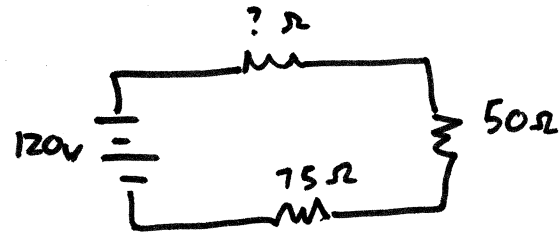
4) The number of paths electricity can take in a series circuit is _____.

5)



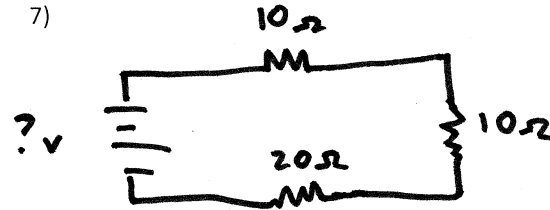
	Voltage (Volts)	Current (Amps)	Resistance (ohms)
R1			10
R2			15
R3			20
Total	10		

6)



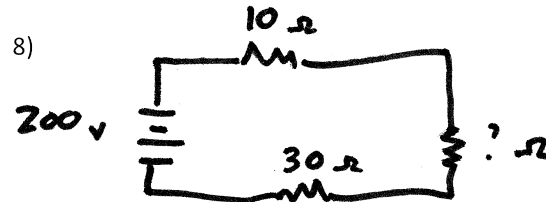
	Voltage (Volts)	Current (Amps)	Resistance (ohms)
R1		0.8	
R2		0.8	50
R3		0.8	75
Total	120	0.8	150

7)



	Voltage (Volts)	Current (Amps)	Resistance (ohms)
R1		2.5	10
R2		2.5	10
R3		2.5	20
Total		2.5	

8)



	Voltage (Volts)	Current (Amps)	Resistance (ohms)
R1		2.67	10
R2		2.67	
R3		2.67	30
Total	200	2.67	75