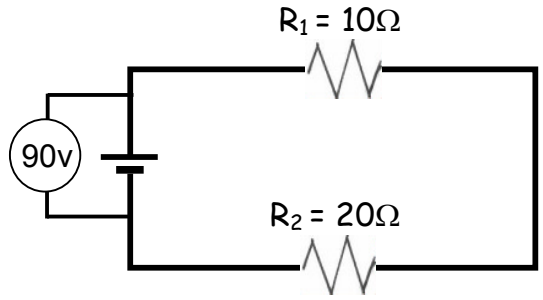
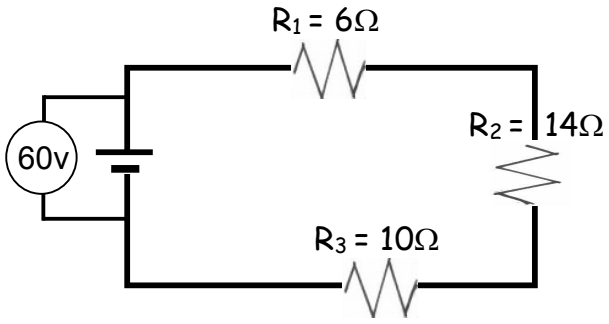
Worksheet- Series Circuit Problems, Episode 903 Name _____

Remember that in a series circuit:

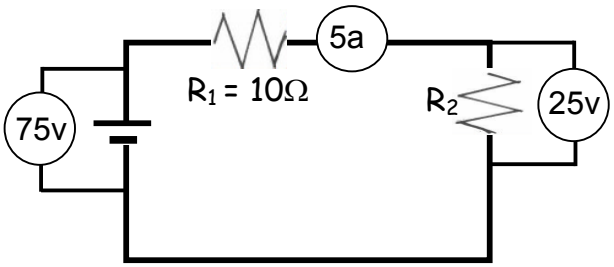
- the **current** in every part of the circuit (is the same, adds up).
- the **voltage** supplied by the battery is the _____ voltage of the circuit, and the voltage drops across each resistor (is the same, adds up to) the total voltage.
- to calculate total **resistance**, (add, use reciprocals).



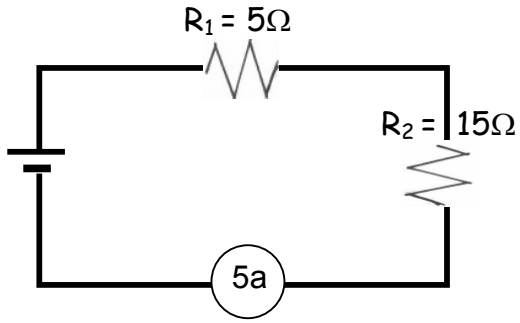
R_T= _____ I_T = _____
I_1 = _____ I_2 = _____
V_1 = _____ V_2= _____



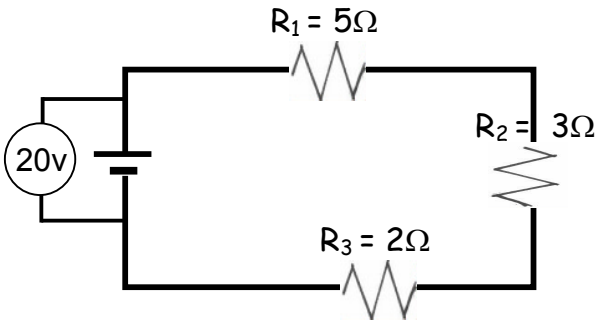
R_T= _____ I_T = _____
I_1 = _____ I_2 = _____ I_3 = _____
V_1 = _____ V_2= _____ V_3 = _____



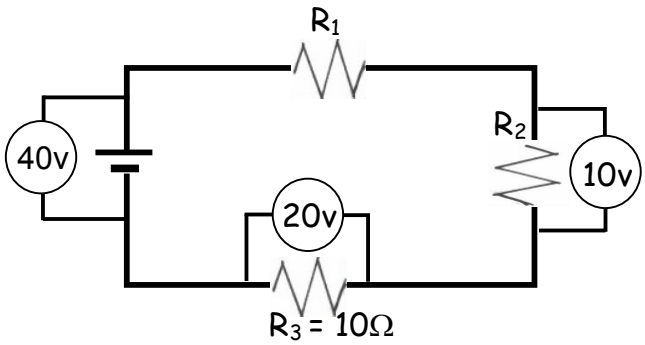
V_1 = _____ I_2 = _____ R_2 = _____



V_1 = _____ V_2= _____ V_T = _____



R_T = _____ I_T = _____
V_1 = _____ V_2= _____ V_3 = _____



I_3 = _____ I_1 = _____ V_1 = _____
R_1 = _____ R_2 = _____