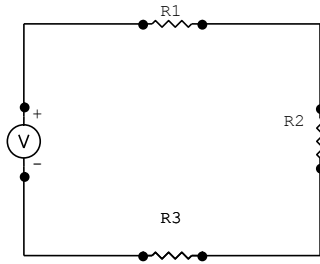


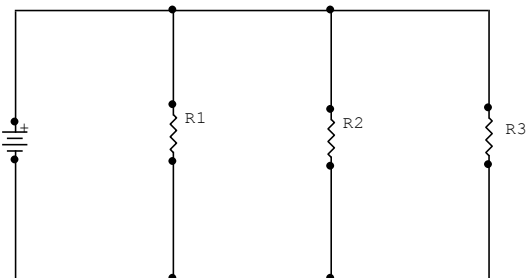
Physics
Conceptual Circuits

Name: _____



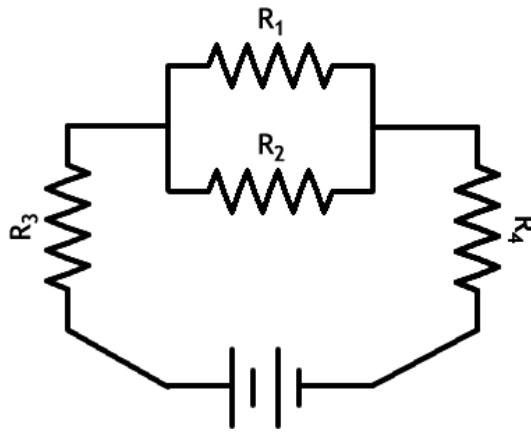
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13) If the value of R_1 decreases what will the following do?

I_{tot}	V_{R1}	V_{R2}	V_t

14) If R_3 burns out, what will the following do?

I_{R1}	I_{tot}	R_{tot}	V_{R2}

15) If the power supply voltage increases, what will the following do?

I_{tot}	V_{R1}	I_{R2}	R_3

16) If R_2 shorts (replaced by a bare wire), what will the following do?

V_{tot}	I_{tot}	R_{tot}	V_{R2}

17) If another resistor is added to the circuit in parallel with R_1 and R_2 , what will the following do?

I_{tot}	V_{R1}	V_{R4}	I_{R3}

18) If the value of R_3 increases, what will the following do?

I_{tot}	V_{R1}	V_{R2}	R_3

19) If another resistor is added to the circuit in series with R_1 , what will the following do?

I_{tot}	V_{R1}	V_{R4}	I_{R3}

20) If another resistor is added to the circuit in parallel with just R_4 , what will the following do?

I_{tot}	V_{R1}	V_{R4}	I_{R3}