

## **Series Circuit Rules**

- 1) Current remains constant throughout the circuit**
- 2) The total circuit resistance is the sum of all resistance in the circuit**
- 3) The sum of all voltage drops is equal to the source voltage**
- 4) The voltage drop across each resistor will differ depending on the value of the resistor**

## **Parallel Circuit Rules**

- 1) Source voltage is applied to all legs in the circuit**
- 2) The total current is the sum of the current flowing in each leg**
- 3) The current flowing through each leg depends on the amount of resistance in each leg**
- 4) The total resistance is always lower than the resistance of the lowest leg**