Calculating Resistance

Series Resistance

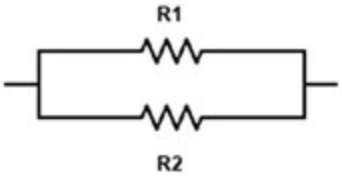
$R_{total} = R_1 + R_2 + \ldots R_N$

Parallel Resistance

$$R_{total} = \frac{1}{\frac{1}{R1} + \frac{1}{R2} + \ldots \frac{1}{RN}}$$

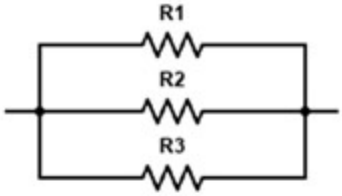
Hint: When resistors of the same value are in parallel, the resistance is the value of one resistor divided by the number of resistors.

Assuming all the resistors below have a value of 90Ω, calculate the following resistances:

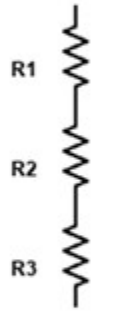


1. _____

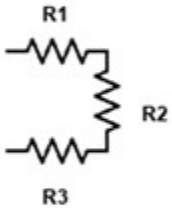
2. _____



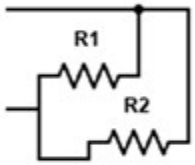
3. _____



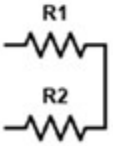
4. _____



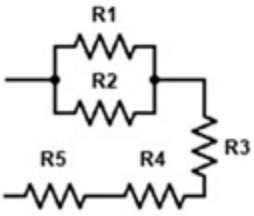
5. _____



6. _____



7. _____



8. _____