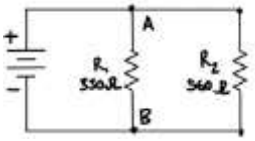
Parallel Resistors (14:53)

Describe a parallel circuit.

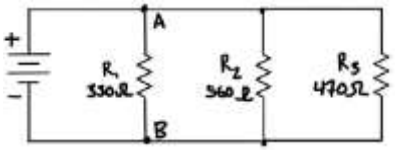
Identify the two formulas used to calculate the total resistance for parallel configurations.

Calculate the total resistance of this parallel configuration of resistors.

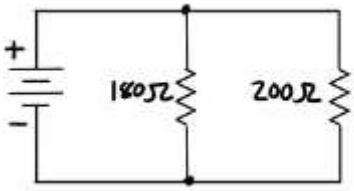


Identify how the magnitude of the total resistance of a parallel combination relates to the magnitude of the resistors constituting the parallel combination.

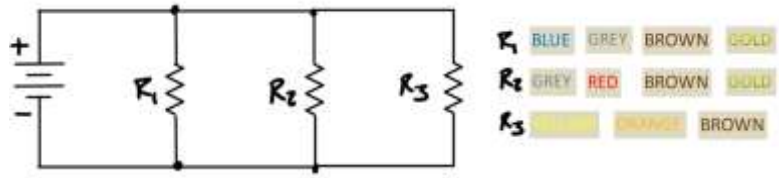
Calculate the total resistance of this parallel configuration of resistors.



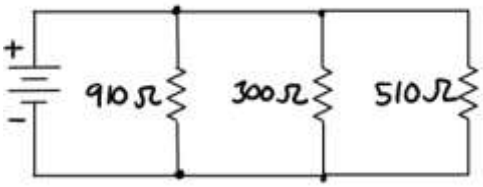
Calculate the total resistance of this parallel configuration of resistors.



Calculate the total resistance of this parallel configuration of resistors

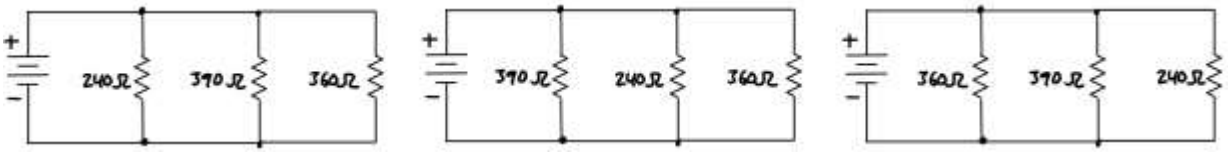


Calculate the total resistance of this parallel configuration of resistors

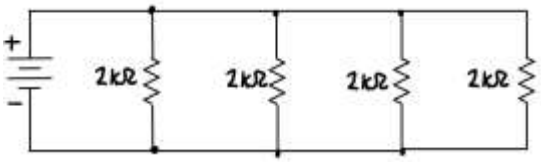


Calculate the total resistance of this parallel configuration of resistors

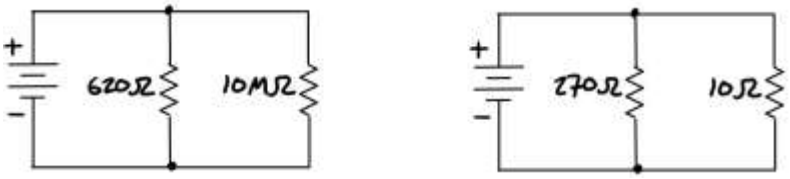
Calculate the total resistance of this parallel configuration of resistors. Comment on how order influences the total resistance.



Calculate the total resistance of this parallel configuration of resistors. Identify a shortcut to determine the total resistance of a parallel configuration of identical resistors.



Calculate the total resistance of these parallel configurations of resistors. Identify the consequences of abnormally large and abnormally small resistors in parallel.



Identify the consequences of opened elements in parallel circuits.

Identify the consequences of shorted elements in parallel circuits.