RESISTORS IN SERIES

Key Revision Facts: GCSE Science

Combining two or more resistors will increase the resistance of the circuit.

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Total Resistance = R1 + R2 + R3 + R4
Total Resistance = 1k + 2k + 3k + 4k
Total Resistance = 10k
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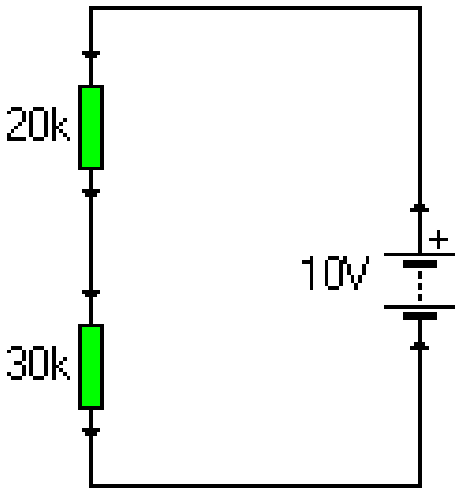
Example

The current of the circuit can be calculated by adding the values of the resistors and using OHM's law.




```
Total resistance
=20k+30k=50k
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$$I = \frac{V}{R} = \frac{10}{50} = 0.2A$$