

Ohm's Law

Name:

Block:

$$V=IR$$

$$I=V/R$$

$$R=V/I$$

V: Voltage (V)

I: Current (A)

R: Resistance (Ω)

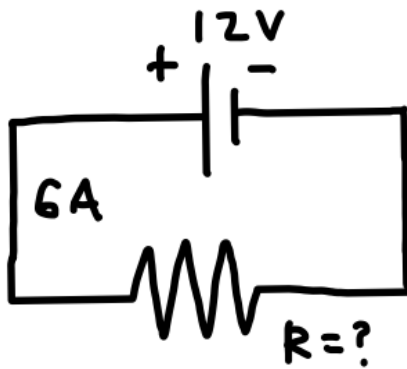
4 Steps

1. List your givens and unknown (V, I and R)
2. Write down Ohm's Law
3. Substitute in givens
4. Solve for unknown

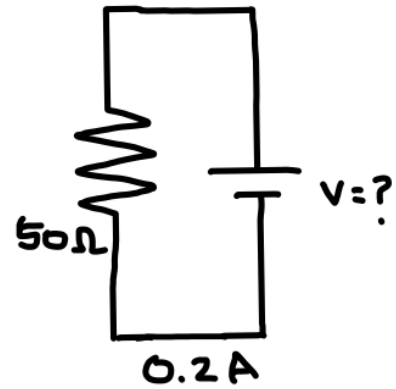
1. Find the current through a circuit with a resistance of 24 Ω when 24 V is applied.
2. Find the resistance of a circuit that draws 0.06 A with 12 V applied.
3. Find the applied voltage of a circuit that draws 0.2 amperes through a 4800-ohm resistance.
4. Find the applied voltage of a telephone circuit that draws 0.017 A through a resistance of 15,000 Ω .
5. If a blender is plugged into a 110 V outlet that supplies 2.7 A of current, what is the resistance of the of the blender?
6. A resistive load of 600-ohms is connected to a 24 V power supply. Find the current through the resistor.

Solve for the unknown quantity.

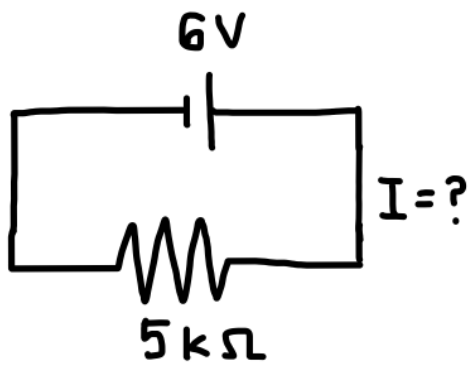
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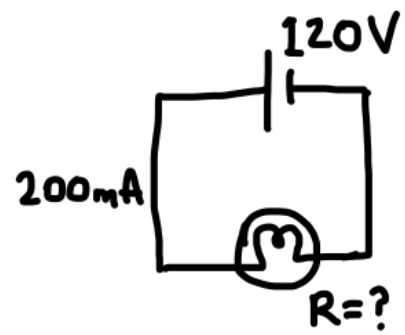
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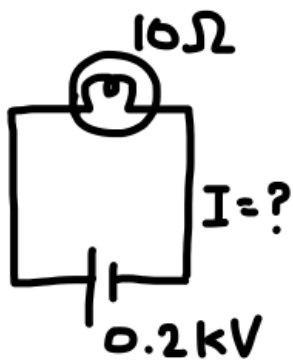
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10.



11.



12.

