## Let's use Ohm's Law

If you want to calculate the Voltage:
Voltage $=1 \times R$
If you want to calculate the Current:
Current $=\mathrm{E} / \mathrm{R}$
If you want to calculate the Resistance:
Resistance $=\mathrm{E} / \mathrm{I}$
\#1
Here is a schematic of a resistor and a battery. Calculate the current that is flowing in this circuit?


Answer: Current $=\mathrm{E} / \mathrm{R}$

$$
\begin{aligned}
& =9 / 100 \\
& =0.09 \mathrm{Amps}
\end{aligned}
$$

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Here is a schematic of a resistor and a battery. Calculate the voltage in this circuit?


Answer: Voltage = I x R

$$
\begin{array}{r}
=0.020 \times 470 \\
=9.4 \text { Volts }
\end{array}
$$

\#3
Here is a schematic of a resistor and a battery. Calculate the resistance in this circuit?


Answer: Resistance = E/I

$$
\begin{aligned}
& =9 / 0.025 \\
& =360 \text { Ohms }
\end{aligned}
$$

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