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Student Exploration: Advanced Circuits

[Note to teachers and students: This Gizmo was designed as a follow-up to the Circuits Gizmo. We recommend doing that activity before trying this one.]

Vocabulary: circuit breaker, equivalent resistance, fuse, Ohm's law, parallel circuit, series circuit

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)



1. What is the mathematical relationship between current, resistance, and voltage?

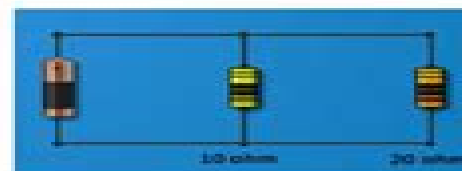
$I = V/R$

2. What is the **equivalent resistance** (total resistance) of the **series circuit** shown at left? 130 ohm

Gizmo Warm-up

In the Circuits Gizmo, you learned how to use **Ohm's law**: $I = V/R$, to determine the current in parallel and series circuits. But how do you find the resistance and current in a complex circuit that has both series and parallel elements?

First, review how to find the equivalent resistance of a **parallel circuit**. Use the *Advanced Circuits Gizmo* to construct the parallel circuit shown at right, using a 10-ohm and a 20-ohm resistor. Set the **Selected battery voltage** to 20 volts.



1. Move the **Ammeter** next to the battery. What is the current? 3.00 amperes
2. Based on Ohm's law, what is the equivalent resistance in the circuit? 6.7 ohm
3. You can calculate the equivalent resistance of a parallel circuit using the following equation:

$$\frac{1}{R_{\text{Total}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots + \frac{1}{R_n}$$

Based on this equation, what is the equivalent resistance of the circuit? 6.7 ohm



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Clemens Wendtner

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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