



Name: **Latif Logan**

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Student Exploration: Advanced Circuits

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

[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

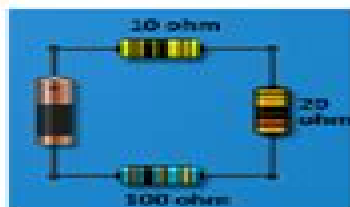
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

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

flowing through a circuit is directly proportional to the voltage, V , and inversely proportional to the resistance, r

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

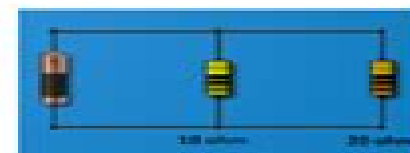
130 ohms



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?
2. Based on Ohm's law, what is the equivalent resistance in the circuit?

3A

6.67 ohms

3. You can calculate the equivalent resistance of a parallel circuit using the following equation:

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

Gizmo Advanced Circuits Answers

Michael Seilmaier

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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