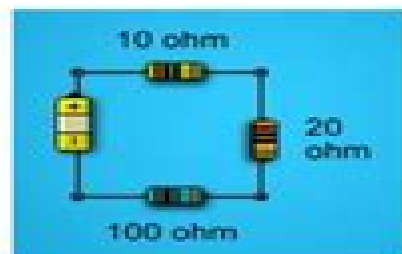# Advanced Circuits

[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.)
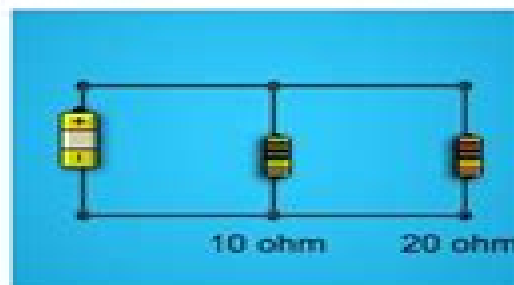

10 ohm

20 ohm

100 ohm

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

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

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.

10 ohm   20 ohm

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? < >

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

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

Based on this equation, what is the equivalent resistance of the circuit? < >

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Khalid Sayood

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   F & S Index United States Annual ,2007   Biennial Report - Wisconsin Educational Communications Board Wisconsin. Educational Communications Board,1971   Connect It! Elsie Olson,2017-12-15 Kids will use bright and squishy conductive dough to power mini UFO lights a diary alarm and more Colorful step by step photos bring each project to life   Electric Circuit Problems with Solutions F. A. Benson,1975-04-24 Electrical engineering and electronic engineering students have frequently to resolve and simplify quite complex circuits in order to understand them or to obtain numerical results and a sound knowledge of basic circuit theory is therefore essential The author is very much in favour of tutorials and the solving of problems as a method of education Experience shows that many engineering students encounter difficulties when they first apply their theoretical knowledge to practical problems Over a period of about twenty years the author has collected a large number of problems on electric circuits while giving lectures to students attending the first two post intermediate years of Uni versity engineering courses The purpose of this book is to present these problems a total of 365 together with many solutions some problems with answers given at the end of each Chapter are left as student exercises in the hope that they will prove of value to other teachers and students Solutions are separated from the problems so that they will not be seen by accident The answer is given at the end of each problem however for convenience Parts of the book are based on the author s previous work Electrical Engineering Problems with Solutions which was published in 1954   **Understanding Circuits : Learning Problem Solving Using Circuit Analysis** Khalid Sayood,2005

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