



Name:

Date:

Student Exploration: Advanced Circuits

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

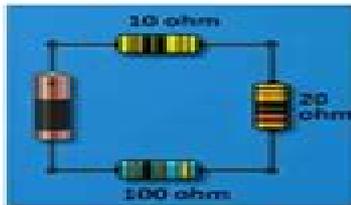
[Note to teachers and students: This Gizmo was designed as a follow-up to the Circuits Gizmo. We recommend doing that activity before trying this one.]

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?

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.



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:

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

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

Explorelearning Circuits Gizmo Answer Key

SJ Ball



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Enjoying the Tune of Appearance: An Mental Symphony within **Explolearning Circuits Gizmo Answer Key**

In some sort of taken by displays and the ceaseless chatter of instantaneous interaction, the melodic elegance and psychological symphony produced by the published word usually disappear in to the back ground, eclipsed by the persistent noise and distractions that permeate our lives. Nevertheless, located within the pages of **Explolearning Circuits Gizmo Answer Key** a marvelous literary value overflowing with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this fascinating masterpiece conducts readers on a psychological journey, well unraveling the concealed melodies and profound impact resonating within each cautiously crafted phrase. Within the depths of this touching review, we can discover the book is central harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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