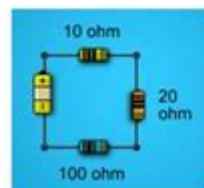


Advanced Circuits

[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.)

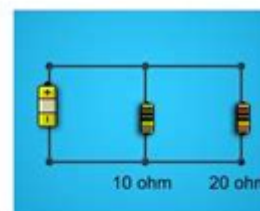


1. What is the mathematical relationship between current, resistance, and voltage? < >
2. What is the **equivalent resistance** (total resistance) of the **series circuit** shown at left? < >

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? < >

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Gizmo Circuits Answers Worksheets - Kiddy Math

Advanced Circuits. Build compound circuits with series and parallel elements. Calculate voltages, resistance, and current across each component using Ohm's law and the equivalent resistance equation. Check your answers using a voltmeter, ammeter, and ohmmeter. Learn the function of fuses as a safety device.

Advanced Circuits Gizmo : Lesson Info : ExploreLearning

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Parallel circuits. Get the Gizmo ready: Click Clear. Create a circuit as shown. Click the battery to select it. Set the Selected battery voltage to 15 volts. Question: In a parallel circuit, there ...

Student Exploration- Circuits (ANSWER KEY) by dedfsf ...

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.

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Answers To Advanced Circuits Gizmo Quiz

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.

Student Exploration: Advanced Circuits

Advanced Circuits Gizmo : ExploreLearning Build compound circuits with series and parallel elements. Calculate voltages, resistance, and current across each component using Ohm's law and the equivalent resistance equation. Check your answers using a voltmeter, ammeter, and ohmmeter.

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