

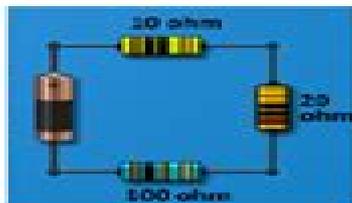
Name: Veer Chawla

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?

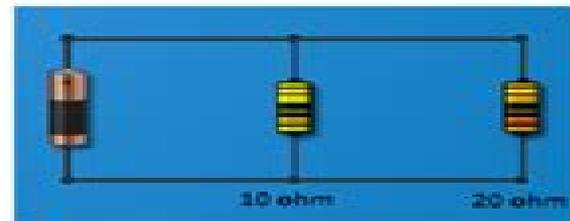
$$V=IR$$

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? 3A
2. Based on Ohm's law, what is the equivalent resistance in the circuit? 6.67 ohms
3. You can calculate the equivalent resistance of a parallel circuit using the following equation:

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

Based on this equation, what is the equivalent resistance of the circuit? 6.67 ohms

Explore Learning Gizmo Answer Key Advanced Circuits

Albert A Gayle



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Table of Contents Explore Learning Gizmo Answer Key Advanced Circuits

1. Understanding the eBook Explore Learning Gizmo Answer Key Advanced Circuits
 - The Rise of Digital Reading Explore Learning Gizmo Answer Key Advanced Circuits
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Gizmo Answer Key Advanced Circuits
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Explore Learning Gizmo Answer Key Advanced Circuits
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Gizmo Answer Key Advanced Circuits
 - Personalized Recommendations
 - Explore Learning Gizmo Answer Key Advanced Circuits User Reviews and Ratings
 - Explore Learning Gizmo Answer Key Advanced Circuits and Bestseller Lists

5. Accessing Explore Learning Gizmo Answer Key Advanced Circuits Free and Paid eBooks
 - Explore Learning Gizmo Answer Key Advanced Circuits Public Domain eBooks
 - Explore Learning Gizmo Answer Key Advanced Circuits eBook Subscription Services
 - Explore Learning Gizmo Answer Key Advanced Circuits Budget-Friendly Options
6. Navigating Explore Learning Gizmo Answer Key Advanced Circuits eBook Formats
 - ePub, PDF, MOBI, and More
 - Explore Learning Gizmo Answer Key Advanced Circuits Compatibility with Devices
 - Explore Learning Gizmo Answer Key Advanced Circuits Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Explore Learning Gizmo Answer Key Advanced Circuits
 - Highlighting and Note-Taking Explore Learning Gizmo Answer Key Advanced Circuits
 - Interactive Elements Explore Learning Gizmo Answer Key Advanced Circuits
8. Staying Engaged with Explore Learning Gizmo Answer Key Advanced Circuits
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Explore Learning Gizmo Answer Key Advanced Circuits
9. Balancing eBooks and Physical Books Explore Learning Gizmo Answer Key Advanced Circuits
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Explore Learning Gizmo Answer Key Advanced Circuits
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Explore Learning Gizmo Answer Key Advanced Circuits
 - Setting Reading Goals Explore Learning Gizmo Answer Key Advanced Circuits
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Explore Learning Gizmo Answer Key Advanced Circuits
 - Fact-Checking eBook Content of Explore Learning Gizmo Answer Key Advanced Circuits
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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