

Activity B:
Series circuits

Get the Game ready

- Click **Clear**.
- Create a circuit as shown.
- Click the battery to select it. Set the **Selected battery voltage** to 10 volts.



Question: In a **SERIES CIRCUIT**, there is only one path for charge to flow. What are the properties of series circuits?

1. **Observe:** Turn the light switch **ON** and observe the light bulb. Then start replacing the wire segments with new light bulbs.

A. How does each new light bulb affect the others? **Each new light bulb will dim others.**

B. Use the **Ammeter** to measure the current in various parts of the circuit. Is the current the same throughout, or does it change? **Yes, current is same throughout.**

2. **Formulate:** How do you think the total resistance of a series circuit is calculated?

The hypothesis can be formed as total resistance will be sum of all resistances.

3. **Experiment:** Create a series circuit with a 10-volt battery and four 10-ohm resistors, as shown. Measure the current.



A. Based on the voltage and current, what is the resistance of the circuit?

(Hint: Use Ohm's law.) **40ohms**

B. **Simulate** measure resistance. Remove the battery and attach the terminals of the **Ohmmeter** (**Ω**) to the ends of the circuit, where the battery used to be attached.

What is the resistance? **40ohms**

4. **State a rule:** How do you calculate the total resistance of a series circuit?

The rule can be formed as the total resistance is sum of all resistances. R_{total}

Test your rule using the Game. If necessary, modify your rule.

5. **Extend your thinking:** Replace the battery. Turn on **Show current**, and remove one resistor. Why would it be a problem if your household appliances were connected in a series circuit?

If my household appliances were connected in a series circuit it will be a problem as if one appliance goes off the all appliances will go off.

Explore Learning Circuits answer Sheets

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Table of Contents Explore Learning Circuitanswer Sheets

1. Understanding the eBook Explore Learning Circuitanswer Sheets
 - The Rise of Digital Reading Explore Learning Circuitanswer Sheets
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Circuitanswer Sheets
 - 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 Circuitanswer Sheets
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Circuitanswer Sheets
 - Personalized Recommendations
 - Explore Learning Circuitanswer Sheets User Reviews and Ratings
 - Explore Learning Circuitanswer Sheets and Bestseller Lists
5. Accessing Explore Learning Circuitanswer Sheets Free and Paid eBooks
 - Explore Learning Circuitanswer Sheets Public Domain eBooks
 - Explore Learning Circuitanswer Sheets eBook Subscription Services
 - Explore Learning Circuitanswer Sheets Budget-Friendly Options

6. Navigating Explore Learning Circuitanswer Sheets eBook Formats
 - ePub, PDF, MOBI, and More
 - Explore Learning Circuitanswer Sheets Compatibility with Devices
 - Explore Learning Circuitanswer Sheets Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Explore Learning Circuitanswer Sheets
 - Highlighting and Note-Taking Explore Learning Circuitanswer Sheets
 - Interactive Elements Explore Learning Circuitanswer Sheets
8. Staying Engaged with Explore Learning Circuitanswer Sheets
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Explore Learning Circuitanswer Sheets
9. Balancing eBooks and Physical Books Explore Learning Circuitanswer Sheets
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Explore Learning Circuitanswer Sheets
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Explore Learning Circuitanswer Sheets
 - Setting Reading Goals Explore Learning Circuitanswer Sheets
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Explore Learning Circuitanswer Sheets
 - Fact-Checking eBook Content of Explore Learning Circuitanswer Sheets
 - 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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