

Series Circuits

READ

In a series circuit, current follows only one path from the positive end of the battery toward the negative end. The total resistance of a series circuit is equal to the sum of the individual resistances. The amount of energy used by a series circuit must equal the energy supplied by the battery. In this way, electrical circuits follow the law of conservation of energy. Understanding these facts will help you solve problems that deal with series circuits.

To answer the questions in the practice section, you will have to use Ohm's law. Remember that:

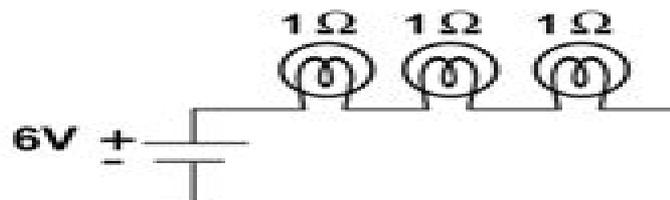
$$\text{Current (amps)} = \frac{\text{Voltage (volts)}}{\text{Resistance (ohms)}}$$

Some questions ask you to calculate a *voltage drop*. We often say that each resistor (or light bulb) creates a separate voltage drop. As current flows along a series circuit, each resistor uses up some energy. As a result, the voltage gets lower after each resistor. If you know the current in the circuit and the resistance of a particular resistor, you can calculate the voltage drop using Ohm's law.

$$\text{Voltage drop across resistor (volts)} = \text{Current through resistor (amps)} \times \text{Resistance of one resistor (ohms)}$$

PRACTICE

- Use the series circuit pictured to the right to answer questions (a)-(e).
 - What is the total voltage across the bulbs?
 - What is the total resistance of the circuit?
 - What is the current in the circuit?
 - What is the voltage drop across each light bulb? (Remember that voltage drop is calculated by multiplying current in the circuit by the resistance of a particular resistor: $V = IR$.)
 - Draw the path of the current on the diagram.
- Use the series circuit pictured to the right to answer questions (a)-(e).
 - What is the total voltage across the bulbs?
 - What is the total resistance of the circuit?
 - What is the current in the circuit?
 - What is the voltage drop across each light bulb?
 - Draw the path of the current on the diagram.
- What happens to the current in a series circuit as more light bulbs are added? Why?
- What happens to the brightness of each bulb in a series circuit as additional bulbs are added? Why?



Circuits Series And Parallel Answer Key

EW Minium



Circuits Series And Parallel Answer Key:

The book delves into Circuits Series And Parallel Answer Key. Circuits Series And Parallel Answer Key is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Circuits Series And Parallel Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Circuits Series And Parallel Answer Key
 - Chapter 2: Essential Elements of Circuits Series And Parallel Answer Key
 - Chapter 3: Circuits Series And Parallel Answer Key in Everyday Life
 - Chapter 4: Circuits Series And Parallel Answer Key in Specific Contexts
 - Chapter 5: Conclusion
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 5. In chapter 4, the author will scrutinize the relevance of Circuits Series And Parallel Answer Key in specific contexts. The fourth chapter will explore how Circuits Series And Parallel Answer Key is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Circuits Series And Parallel Answer Key. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Circuits Series And Parallel Answer Key.

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