

Name: _____

Skill Sheet 20.1

Parallel and Series Circuits

There are two major types of electrical circuits: series and parallel. In a series circuit, current follows only one path. In a parallel circuit, the current has two or more possible paths. In both types of circuits, the current travels from the positive end of the battery toward the negative end. The amount of energy used by a circuit (series or parallel) 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 and parallel circuits.

1. Solving series circuit problems

Now it is time for you to test your knowledge of series and parallel circuits by answering the questions below. You will have to use Ohm's law to solve many of the problems, so remember:

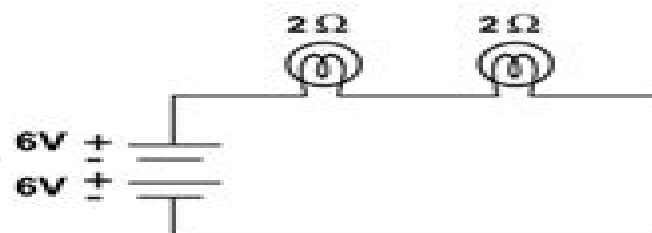
$$\text{Current (amps)} = \frac{\text{Voltage (volts)}}{\text{Resistance (ohms)}}$$

Some questions ask you to calculate a *voltage drop*. We often say that each resistor 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.

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

1. Use the series circuit pictured at right to answer questions a-e below.

a. What is the total voltage of the circuit?



b. What is the total resistance of the circuit?

c. What is the current flowing through the circuit?

d. 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: $V = IR$.)

e. Draw the path of the current flow on the diagram.

Answer Key For Series And Parallel Circuits

Peter Ellis, Derek McMonagle



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