

## CHAPTER 23

## STUDY GUIDE

## SERIES AND PARALLEL CIRCUITS

## Vocabulary Review

For each description on the left, write the letter of the matching item.

series circuit	1.	a circuit in which there is only one current path	a.	ammeter
fuse	2.	a short piece of metal that melts if a current that is too large passes through it	b.	circuit breaker
short circuit	3.	the occurrence when a circuit forms that has a very low resistance	c.	combination series-parallel circuit
parallel circuit	4.	a circuit in which there are several different paths for a current	d.	equivalent resistance
circuit breaker	5.	an automatic switch that opens a circuit when the current reaches some set value, stopping electric charge flow	e.	fuse
combination series-parallel circuit	6.	a circuit that has some branches in parallel and some in series	f.	ground-fault interrupter
equivalent resistance	7.	the value of a single resistor that could replace all resistors in a circuit without changing the current	g.	parallel circuit
ammeter	8.	a device used to measure the current in part of a circuit	h.	series circuit
voltmeter	9.	a device used to measure the potential difference between two points	i.	short circuit
ground-fault interrupter	10.	a device that detects small differences in current caused by an extra current path and opens the circuit	j.	voltage divider
voltage divider	11.	a series circuit used to produce a voltage source from a higher-voltage battery	k.	voltmeter

## SECTION 1 Simple Circuits

In your textbook, read about currents in series circuits.

Circle the letter of the choice that best completes the statement or answers the question.

1. The current is \_\_\_\_\_ a series circuit.
  - a. higher at the beginning of
  - b. **the same everywhere in**
  - c. lower at the beginning of
  - d. variable in

# Study Guide Series Parallel Circuits

**G Orfield**



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