

## 20-5 What is a series circuit?

### Lesson Review

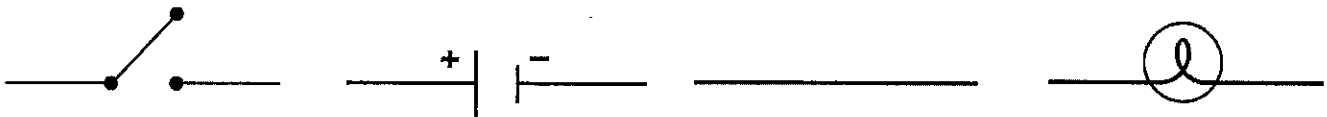
Match each term in **Column B** with the correct description in **Column A**. Write the letter in the space provided.

Column A	Column B
_____ 1. contains a break in the pathway that prevents electric current from flowing	a. switch
_____ 2. a battery or a wall outlet	b. wires
_____ 3. device that uses electric current	c. source
_____ 4. simplest type of electric circuit	d. electric circuit
_____ 5. connects the parts of a circuit	e. load
_____ 6. opens and closes a circuit	f. open circuit
_____ 7. path that an electric current follows	g. series circuit

### Skill Challenge

**Skills:** interpreting tables, diagramming

The symbols shown in the table below are commonly used to represent electric circuits. Using these symbols, draw a series circuit consisting of a battery, a switch, and two lamps. Label the drawing using the terms *source*, *load*, and *switch*. Use arrows to show the direction of current flow in the circuit.



## 20-6 What is a parallel circuit?

### Lesson Review

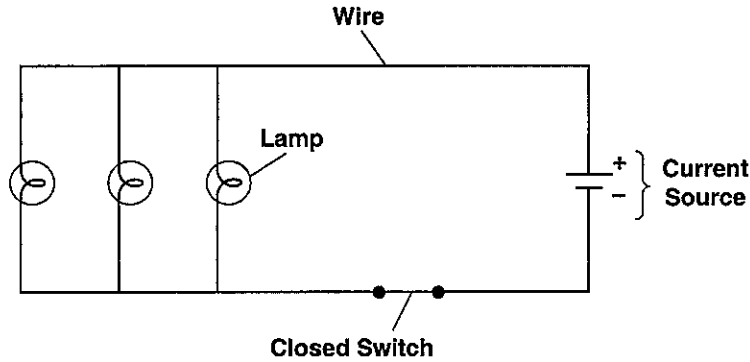
Decide whether each statement below describes a *parallel circuit*, a *series circuit*, or *both*. Write the correct term in the space provided.

- \_\_\_\_\_ 1. A battery can be the source for this circuit.
- \_\_\_\_\_ 2. The circuit can be opened and closed by a switch.
- \_\_\_\_\_ 3. If four lamps are connected in the circuit, the current flows along four separate paths.
- \_\_\_\_\_ 4. If one appliance stops working, other appliances connected to the circuit keep working.
- \_\_\_\_\_ 5. When the current is stopped at any point, the whole circuit becomes open.
- \_\_\_\_\_ 6. Wires connect the load, source, and switch.
- \_\_\_\_\_ 7. Most schools and office buildings use this type of circuit.
- \_\_\_\_\_ 8. Current can follow only one path.

### Skill Challenge

**Skill:** *interpreting diagrams*

The circuit diagram below uses symbols to represent the parts of an electric circuit. Study the diagram. Then, answer the questions that follow.



1. What type of circuit is this? \_\_\_\_\_
2. How many loads does it have? \_\_\_\_\_
3. How many paths can the electric current follow? \_\_\_\_\_
4. Is the circuit open or closed? \_\_\_\_\_
5. What will happen to the other lamps if the bulb in one of the lamps goes out? \_\_\_\_\_