










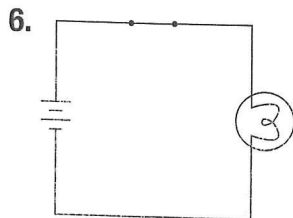
Use with textbook pages 280-285.

## Identifying circuit symbols

Match the Term in the first column with the correct Illustration and Circuit Symbol in the other two columns. Place the corresponding letter and Roman numeral in the blank spaces provided.

Term	Illustration	Circuit Symbol
1. bulb _____ _____	A. 	I. 
2. battery _____ _____	B. 	II. 
3. open switch _____ _____	C. 	III. _____
4. closed switch _____ _____	D. 	IV. 
5. conducting wire _____ _____	E. 	V. 

List all the parts in the following electrical circuit.



Name \_\_\_\_\_

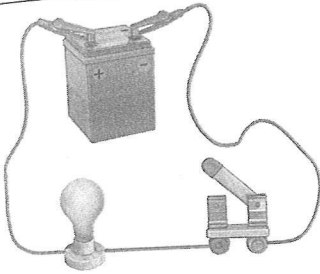
Date \_\_\_\_\_

Use with textbook pages 280-285.

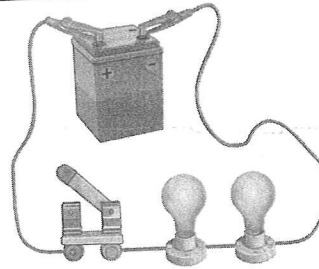
# Drawing circuit diagrams

Use circuit symbols to draw circuit diagrams for each of the following.

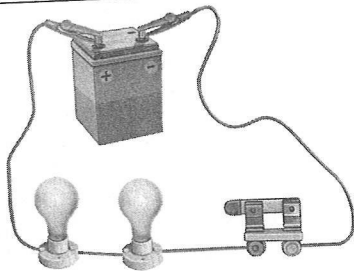
1.



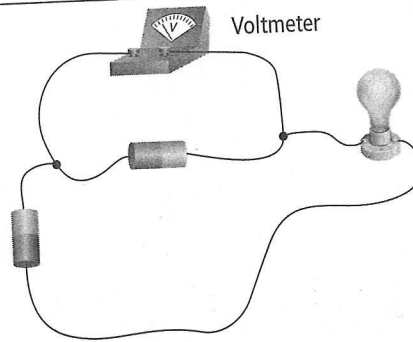
2.



3.



4.



Name \_\_\_\_\_

Date \_\_\_\_\_

**Comprehension**

**Section 8.2**

Use with textbook pages 280-285.

## True or false?

Read the statements given below. If the statement is true, write "T" on the line in front of the statement. If it is false, write "F" and rewrite the statement to make it true.

1. \_\_\_\_\_ An electric circuit is a complete pathway through which electrons can flow.

\_\_\_\_\_

2. \_\_\_\_\_ An electric load transforms light energy into electrical energy.

\_\_\_\_\_

3. \_\_\_\_\_ Light bulbs, heaters, and batteries are all examples of electric loads.

\_\_\_\_\_

4. \_\_\_\_\_ The wire through which electric current flows is a conductor.

\_\_\_\_\_

5. \_\_\_\_\_ A switch is the source of electric potential energy in a circuit.

\_\_\_\_\_

6. \_\_\_\_\_ Circuit diagrams use circuit symbols to illustrate actual electrical circuits.

\_\_\_\_\_

7. \_\_\_\_\_ Current electricity is charge that remains stationary on an insulator.

\_\_\_\_\_

8. \_\_\_\_\_ Electric current is the amount of charge passing a point in a conducting wire each second.

\_\_\_\_\_

\_\_\_\_\_

9. \_\_\_\_\_ Electric current is measured in volts.

\_\_\_\_\_

10. \_\_\_\_\_ An ammeter is used to measure the current in a circuit.

\_\_\_\_\_

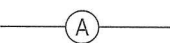
Use with textbook pages 280–285.

# Electric current

Match each Term on the left with the letter on the Diagram on the right. Each letter on the Diagram may be used only once.

Term	Diagram
1. _____ cell	
2. _____ bulb	
3. _____ switch	
4. _____ circuit diagram	
5. _____ conducting wire	

Circle the letter of the best answer.

6. What does the symbol  represent?

- A. a load
- B. a battery
- C. a voltmeter
- D. an ammeter

7. Which of the following are correctly defined?

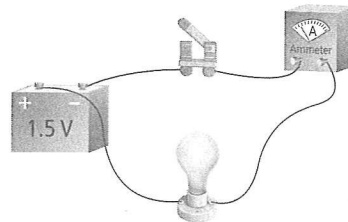
I.	ampere: unit for electric current
II.	ammeter: device used to measure current
III.	electric circuit: an incomplete pathway through which electrons can flow

- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II, and III

8. Which of the following is not an example of an electric load?

- A. a motor
- B. a heater
- C. a light bulb
- D. a generator

Use the following diagram to answer question 9.



9. Which circuit diagram represents the illustration shown above?

