

Chapter 01: Language of Electricity

True / False

1. Electrical symbols are a way to convey meaning while conserving space on a drawing.

- a. True
- b. False

ANSWER: True

2. There is one accepted symbol for a fuse.

- a. True
- b. False

ANSWER: False

3. Switch symbols are sometimes combined so that a more complex switch can be represented.

- a. True
- b. False

ANSWER: True

4. Electrical drawings are typically drawn with all components energized.

- a. True
- b. False

ANSWER: False

5. Scientific notation uses increments of 1000 as well as word abbreviations to make large and small numbers less confusing.

- a. True
- b. False

ANSWER: False

6. In a schematic diagram, the load is typically located at the bottom or right side of the drawing.

- a. True
- b. False

ANSWER: True

Multiple Choice

7. What does a flat horizontal line used with the symbol for motors and generators indicate?

- a. AC
- b. DC
- c. series field

d. shunt field

ANSWER: b

Architectural symbols can convey the number of electrical ____ necessary for proper operation of a device or piece of equipment.

8. Architectural symbols can convey the number of electrical ____ necessary for proper operation of a device...

a. switches

b. gates

c. connectors

d. conductors

ANSWER: d

9. What type of electrical drawing is most often used to trace the flow of power through the drawing?

a. pictorial diagram

b. single-line drawing

c. architectural drawing

d. ladder diagram

ANSWER: b

10. A pictorial diagram is also called a(n) ____ diagram.

a. ladder

b. component

c. architectural

d. wiring

ANSWER: d

11. A(n) ____ diagram shows the relative physical location of the components, wires, and termination points.

a. schematic

b. ladder

c. pictorial

d. architectural

ANSWER: c

12. What type of drawing shows the actual electrical connections, but not the actual physical location of components?

a. single-line drawing

b. architectural drawing

c. schematic diagram

d. pictorial diagram

ANSWER: c

13. In a ladder diagram, where is the first component to operate usually located?

- a. at the top
- b. to the right
- c. at the bottom
- d. to the left

ANSWER: a

14. One type of architectural drawing is the ____.

- a. ladder diagram
- b. floor plan
- c. pictorial diagram
- d. wiring diagram

ANSWER: b

15. What is the correct way to write the number 3,404,655 using scientific notation?

- a. 3.404655×10^6
- b. 34.04655×10^7
- c. 3.404655×10^3
- d. 3.404655×10^{-6}

ANSWER: a

16. In engineering notation, 10^6 is known by the term ____.

- a. kilo
- b. nano
- c. tera
- d. mega

ANSWER: d