

REINFORCEMENT**Chapter 7****Electric Current**

Circle the term in parentheses that makes each statement true.

1. A negatively charged object has electrons with (more, less) potential energy to move and do work than an object that is neutral.
2. Electrons flow from areas of (higher, lower) potential energy to areas of (higher, lower) potential energy.
3. Potential difference is measured in (amperes, volts) .
4. Electrons passing through a lamp (gain, lose) some potential energy as they light the lamp.
5. Electrical potential (varies, is the same) in all parts of a circuit.
6. The rate of flow of electrons in a circuit is measured in (volts, amperes) .
7. Current is measured with (an ammeter, a voltmeter) .
8. When a dry cell is connected in a series, the flow of electrons moves from the (positive, negative) terminal to the (positive, negative) terminal.
9. In a dry cell, the carbon rod releases electrons and becomes the (positive, negative) terminal.
10. The potential difference between the two holes in a wall socket is (12 volts, 120 volts).
11. A car battery is an example of a (dry, wet) cell.
12. Resistance is measured in (ohms, volts).
13. Copper has a (higher, lower) resistance to electron flow than aluminum.
14. According to Ohm's law, ($I = V/R$, $V = I/R$).
15. The symbol for ohm is (Ω , π) .
16. In the equation $I = V/R$, I is expressed in (ohms, amperes) .
17. In the equation $I = V/R$, V is expressed in (volts, ohms) .
18. The (+, —) terminal of a dry cell identifies the location of the carbon rod.
19. A wire with a resistance of 3Ω has a (greater, lesser) resistance to electron flow than a wire with a resistance of 5Ω .
20. A coulomb is the charge carried by 6.24 (billion, billion billion) electrons.