Name _____ Date _____ Class _____

Content Practice A

LESSON 2

Electric Current and Simple Circuits

Directions: *Answer each question on the lines provided.*

1. What is the ampere a measure of?

_____

2. What is the volt a measure of?

_____

3. What is the ohm a measure of?

_____

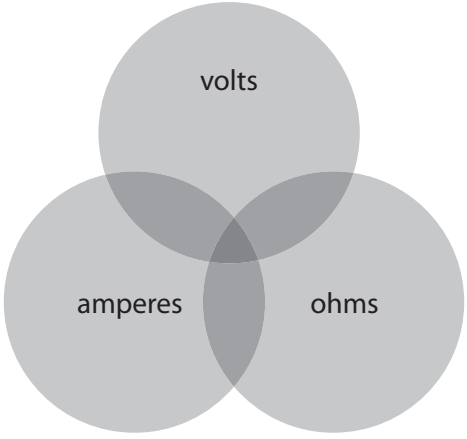
4. What is needed to calculate the voltage across a device?

_____

5. What happens to the current in a circuit when the resistance of the circuit increases?

_____

Directions: *Use the diagram to answer the question on the lines provided.*



6. What does the diagram show about Ohm's law?

_____

_____

Name _____ Date _____ Class _____

Content Practice B

LESSON 2

Electric Current and Simple Circuits

Directions: *On the line before each definition, write the letter of the term that matches it correctly. Some terms will be used more than once.*

_____ **1.** the SI unit for electric current

_____ **2.** Devices with more of this transform more energy.

_____ **3.** term for something that has high electric resistance

_____ **4.** an example of a good conductor

_____ **5.** the unit for electrical resistance

_____ **6.** what voltage is divided by to determine current

_____ **7.** material that holds electrons tightly

_____ **8.** a quantity of electrons

_____ **9.** measure of difficulty for current to flow

_____ **10.** multiplied by current to determine voltage

_____ **11.** One of these is about 1 coulomb per second.

_____ **12.** Divide voltage by this to determine resistance.

_____ **13.** a unit of voltage

_____ **14.** term for something that has low electric resistance

_____ **15.** an example of a good insulator

_____ **16.** measured by the number of electrons flowing past a point every second

_____ **17.** the amount of energy a source uses to move 1 coulomb of electrons

_____ **18.** describes the relationship between voltage, current, and resistance

A. electric current

B. coulomb

C. ampere

D. voltage

E. resistance

F. conductor

G. ohm

H. insulator

I. Ohm's law

J. volt

K. copper

L. rubber