QUIZ 2

NAME DATE CLASS PERIOD

Put a check in the o next to the correct answer.

1. What is a resistor?

- o **voltage source**
- o **an electronic component that enhances current flow**
- o an electronic component that opposes current flow
- o **an electronic component that is rarely used in electronic circuits**

2. What is the electronic symbol of a resistor?

- o 
- o
- o 
- o 

3. Increasing the _____ in an electronic circuit causes a drop in the amount of current.

- o **source voltage**
- o resistance

4. What units are used to express resistance?

- o **farads**
- o **volts**
- o ohms
- o **amperes**

5. Convert each of the following resistor values to Ohms:

a. R = 2 kW

- **i. 200** W
- **ii. 2** W
- iii. 2000 W
- **iv. .002** W

b. R = 6.8 kW

- **i. 680** W
- **ii. .068** W
- iii. 6800 W

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6. What is a potentiometer?

- o An electronic component that is basically used as a variable resistor or as a voltage divider
- o **an electronic device that is used to measure the potential difference between two points on a circuit**
- o **an electronic device that is used to measure resistance**

7. In a series electronic circuit with E = 12V, R_1 = 4 kW, R_2 = 5 kW, the current is equal to:

- o **3 A**
- o **3 mA**
- o 1.333 mA
- o **2.4 mA**

8. For the same circuit in question 7, the voltage drop across R_2 is:

- o **15 V**
- o 6.667 V
- o **12 V**

9. In a series circuit with E = 10V, R_1 = 2 kW, and the voltage drop across R_2 is 7.5 volts. The voltage drop across R_1 is:

- o **7.5 V**
- o 2.5 V
- o **10 V**
- o **0 V**

10. For the same circuit in question 9, the value of R_2 is:

- o **7.5 kW**
- o 6 kW
- o **2 kW**
- o **10 kW**