Worksheet

NAME DATE CLASS

Complete the question, or put a check ✔ in the ☐ next to the correct answer.

1. **What is the voltage value the multimeter gets from the battery?**

2. **What is the resistance value the multimeter gets from the first resistor?**

3. **What is the current value the multimeter gets from the first circuit?**

4. **Insert the values above in the correct places in the Ohm's Law equation V=IR. Do your results demonstrate Ohm's Law?**

5. **What is the resistance value the multimeter gets from the second resistor?**

6. **What is the current value the multimeter gets from the second circuit?**

7. **Insert the values from the second circuit in the correct places in the Ohm's Law equation V=IR. Do your results demonstrate Ohm's Law?**

8. **What is the resistance value the multimeter gets from the third resistor?**

9. **What is the current value the multimeter gets from the third circuit?**

10. **Insert the values from the third circuit in the correct places in the Ohm's Law equation V=IR. Do your results demonstrate Ohm's Law?**

11. **If you substituted a 1000 Ohm resistor, what would the current value of the circuit be?**

12. **If you substituted a 1.5 Volt battery for the 9 volt battery in the circuit with a 1000 Ohm resistor described in question 8, what would the current value of the circuit be?**

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13. **If you had a circuit with a voltage of 9 volts, and you wanted it to have a current as close as possible to 3 amps, what kind of fixed resistor would you add to the circuit: .33 Ohms, 3 Ohms or 27 Ohms?**

    ☐ **.33 Ohms** ☐ **3 Ohms** ☐ **27 Ohms**

14. **If you had a circuit with a 9 volt battery, and the current was 1 milliamp, what would be the value of the fixed resistor?**