Ohm's Law Worksheet

1. What is the current in a 10V circuit if the resistance is 2Ω ? 2. What is the current in a 120V circuit if the resistance 20Ω ? 3. What is the current in a 120V circuit if the resistance 10Ω ? 4. What is the current in a 120V circuit if the resistance 5Ω ? 5. Based on questions 2, 3, and 4, what happens to the current in a circuit as the resistance decreases? Increases? 6. What voltage is required to move 2A through 5Ω ? 7. What voltage is required to move 2A through 10Ω ?

8. What voltage is required to move 2A through 20Ω ?

9. Based on questions 6, 7, and 8, what happens to the voltage required in a circuit as the resistance decreases? Increases?
10. What is the resistance of a circuit with 20V and 2A?
11. What is the resistance of a circuit wit 120V and 1A?
12. What is the resistance of a circuit with 120V and 10A?
13. What is the resistance of a circuit with 120V and 4A?
14. What is the resistance of a circuit with 120V and 30A?
15. What is the current in a 12V circuit if the resistance is 2Ω ?
16. What is the current in a 20V circuit if the resistance is 10Ω ?
17. What is the resistance of a circuit with 120V and 5A?