ELECTRICAL CURRENT WORKSHEET

1. What voltage is required to make .250A flow in a circuit with 8.00Ω resistance?

2. What current flows in a circuit with a potential difference of 12.0v, and a resistance of 25.0Ω?

3. What is the resistance of a circuit with a voltage of 45.0v and a current of 5.00A?

4. A circuit has a total resistance of 80.0Ω. What voltage will force 25.0mA of current through it?

5. A 40.0v circuit has a resistance of 80.0Ω. What amount of current flows through it? How much power does the circuit use?

6. 4.00A flows through a circuit with a resistance of 8.00Ω. What is the potential difference? How much power is in the circuit?

7. How much current flows through the filament of a 75.0W light bulb connected to a 120.v potential?

8. What is the resistance of an electric drill, whose power rating is .500hp, if it is connected to 115v of potential? (1hp = 745W)