Name: _____ Date: _____

5. The potential difference between two points in a circuit is measured as 9.0 V. If the current flowing through the circuit is 75 A, what is the resistance in the circuit?
Given: V = 9.0 V, I = 75 A Find: R = ?

$$R = \frac{I}{V} = \frac{75A}{9.0V} = 8.3333\Omega = 8.3\Omega$$

(final answer has 2 sig fig)

6. The potential difference between two points in a circuit is measured as 6.0 V. If the current flowing through the circuit is 58 A, what is the resistance in the circuit?
Given: Find:

7. The potential difference between two points in a circuit is measured as 15.0 V and the resistance in the circuit is 2.3 Ω, what is the current flowing through the circuit?
Given: Find:

8. The current flowing through the circuit is measured as 84 A. If the resistance in the circuit is 0.96 Ω, what is the potential difference between two points in the circuit?
Given: Find:

9. The current flowing through the circuit is measured as 150 A. If the resistance in the circuit is 4.22 Ω, what is the voltage in the circuit?
Given: Find:

