

## Ohm's Law Examples

$$I = \frac{V}{R}$$

### Example #1

- The resistance of a steam iron is 19.0  $\Omega$ . What is the current in the iron when it is connected across a potential difference of 120 V?

### Example #2

- A typical color television draws 2.5 A of current when connected across a potential difference of 115 V. What is the effective resistance of the television set?

### Example #3

- What would happen to the current if the resistance in a circuit was doubled?

### Example #4

- How would the current change if the voltage doubled?