

## Ohm's Law Practice Answers

1. An alarm clock draws 0.5 A of current when connected to a 120 volt circuit. Calculate its resistance.

$$R = V / I$$

$$= 120 / 0.5$$

$$= 240 \Omega$$

2. A subwoofer needs a household voltage of 110 V to push a current of 5.5 A through its coil. What is the resistance of the subwoofer?

$$R = V / I$$

$$= 110 / 5.5$$

$$= 20 \Omega$$

3. Find the resistance of a bulb if a circuit contains a 1.5 volt battery and generates a current of 0.5 A

$$R = V / I$$

$$= 1.5 / 0.5$$

$$= 3 \Omega$$