



Resistance Calculations Worksheet

resistance = $\frac{\text{potential difference}}{\text{current}}$

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

Units: R is Ω (ohms)
V is V (volts)
I is A (amperes)

1. Find the unknown quantity:

<p>a) $I = 10 \text{ A}$ $R = 1500 \Omega$ $V = ?$</p> <p>$15\,000 \text{ V}$ 15 kV</p>	<p>b) $I = ?$ $R = 200 \Omega$ $V = 240 \text{ V}$</p> <p>$I = 1.2 \text{ A}$</p>	<p>c) $I = 15 \text{ A}$ $R = ?$ $V = 110 \text{ V}$</p> <p>$R = 7.333 \Omega$</p>
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2. Find the unknown quantity (CONVERT FIRST to the unit with no prefix)

<p>a) $I = ?$ $R = 2000 \Omega$ $V = 20 \text{ mV} = \underline{0.02} \text{ V}$</p> <p>$I = 1 \times 10^{-5} \text{ A}$</p>	<p>b) $I = 25 \text{ mA} = \underline{0.025} \text{ A}$ $R = ?$ $V = 110 \text{ V}$</p> <p>$R = 4400 \Omega$</p>	<p>c) $I = 1 \text{ kA} = \underline{1000} \text{ A}$ $R = ?$ $V = 50 \text{ mV} = \underline{.05} \text{ V}$</p> <p>$R = 0.00005 \Omega$</p>
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WORD PROBLEMS

1. How much resistance does a light bulb create if it has a current of 25 mA around it in a 9 V circuit?

$$I = 25 \text{ mA} = 0.025 \text{ A}, V = 9 \text{ V}, R = ?$$

$$R = 9\text{V} / 0.025 \text{ A}$$

$$= 360 \Omega$$

Therefore, the lightbulb has a resistance of $3.6 \times 10^2 \Omega$

2. A heating coil offers a resistance of 2.5 k Ω . What voltage is required so that 1.5 A of current pass through it?

$$R = 2.5 \text{ k}\Omega, I = 1.5 \text{ A}, V = ?$$

$$V = IR \quad V = (1.5)(2500) = 3750 \text{ V}$$

Therefore, the heating coil requires $3.75 \times 10^3 \text{ V}$

3. The human body offers a very small amount of resistance (let's say 1 m Ω for argument). If a lightning bolt (said to have 1.21 GV of potential according to a famous movie called *Back to the Future* released in 1984), hits you how much current is flowing through your body.

$$R = 1 \text{ m}\Omega, V = 1.21 \times 10^9 \text{ V}, I = ?$$

$$I = V/R \quad I = 1.21 \times 10^9 / 1 \times 10^{-3} = 1.21 \times 10^{12} \text{ A}$$

Therefore, $1.21 \times 10^{12} \text{ A}$ would flow through your body

Resistance Calculations Worksheet Answers

Peter Phillips



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