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Equation Practice  
Worksheet <http://www.uoguelph.ca/~antoon/gadgets/resistors/resistor.htm> Answers 1.  $I = E/R = 24/12 = 2$  amperes 2.  $R = E.I = 12/.06 = 200$  ohms 3.  $E = IR = (0.2)(4800) = 960$  volts 4.  $E = IR = (.017)(15000) = 255$  volts 5.  $I = 0.5$  A or 45

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mA 6.  $I = 0.01\text{A}$  or

10mA 7.  $I = 0.0135\text{ A}$  or

13.5 mA 8.  $I = 0.25\text{ A}$  or

250 mA 9.

## **Ohm's Law and Power Equation Practice Worksheet**

Practice using Ohm's law to predict changes in electric potential difference, resistance, or current for a circuit component.

## **Calculating resistance, voltage,**

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**and current using**

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average accuracy. 4  
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## Ohm's law and Power Practice Quiz Quiz - Quizizz

Electrical energy (kWh)  
= Power (kW) X time  
(h)  $E = Pt$  .  $E P T$  .

Electrical Power (watts)  
= current (amps A) X  
voltage difference  
(volts)  $P = IV$  .  $P I$  .

Current (amps A) =  
voltage difference  
(volts V)  $\div$  Resistance  
(ohms  $\Omega$ )  $V$  .  $I = V/R$  .  $V I$   
R . Conversions: Watts  
kW (divide by

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1000-move decimal 3  
places to the LEFT)

## **Ohm's Law & Power Practice Problems**

Ohm's Law and Power  
Practice Problems by

Mrs K Science | TpT

Ohm's law states that the voltage  $V$  across a conductor of resistance  $R$  is proportional to the current  $I$  passing through the resistor (see circuit below). The relationship is written as.



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## **Ohms Law And Power Practice Answers**

Ohm's law states that the voltage  $V$  across a conductor of resistance  $R$  is proportional to the current  $I$  passing through the resistor (see circuit below). The relationship is written as.  $V = R I$ . Which can also be written as.  $I = V / R$  and  $R = V / I$ .

**Ohm's Law with**  
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**Examples -**

**problemsphysics.co**

**m**

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The relationship  
between Voltage,  
Current and Resistance

in any DC electrical  
circuit was firstly

discovered by the

German physicist

Georg Ohm. Georg

Ohm found that, at a

constant temperature,

the electrical current

flowing through a fixed

linear resistance is

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directly proportional to the voltage applied across it, and also inversely proportional to the resistance.

## **Ohms Law Tutorial and Power in Electrical Circuits**

Power: measured in watts, is represented by the letter  $W$ ;

Recommended: Basic Electrical Terms and Definitions. Ohm's Law. Ohm's Law states the relationship between

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voltage, current and resistance. Given the relationship between these three elements, once you know any two of them, it is possible to calculate the third.  $V = IR$ .  $I = V / R$ .  $R = V / I$ . Volts = Amps x Ohms

### **Ohm's Law & Watt's Law Cheat Sheet - TestGuy**

Ohms law quiz is a simple test designed for you to test your knowledge of Ohm's

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Law. 1. The statement which correctly represents Ohm's law:  $V = IR$ ;  $V = R/I$ ;  $R = VI$ ;  $I = R/V$  Correct answer: 1.  $V = IR$ ; 2. A 10 ohms resistor is powered by a 5-V battery. The current flowing through the source is: 10 A; 50 A; 2 A; 0.5 A Correct answer: 4. 2 A

## **Ohm's Law Quiz MCQs with Answers**

- **Ohm Law**

For webquest or

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practice, print a copy of this quiz at the Physics: Ohm's Law webquest print page. About this quiz: All the questions on this quiz are based on information that can be found at Physics: Ohm's Law. Instructions: To take the quiz, click on the answer. The circle next to the answer will turn yellow. You can change your answer if you want.

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## Science Quiz: Physics: Ohm's Law - Ducksters

He finally published the law in 1827 and generalized his observations in single statement: The current flowing through the resistor is directly proportional to the voltage applied across it. The website <https://www.ohmlaw.com> is a dedicated resource for Ohm's law, calculation

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tools, applications and theoretical calculations on Ohm's law.

## **Ohm's Law Practice Worksheet ... -**

### **Ohm's Law • Ohm Law**

Ohm's Law states that the current (in Amperes) is equal to the Voltage (in Volts) divided by the resistance (in Ohms). This relationship can be shown in the following three equations: 1.



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Current = Voltage

Resistance 2.

Resistance = Voltage

Current 3.

## **BASIC ELECTRICAL**

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## **Ohms Law Practice In Worksheets - Kiddy Math**

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Law Calculator.

Calculate Power,  
Current, Voltage or

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Resistance. Just enter 2 known values and the calculator will solve for the others.

## **Ohms Law Calculator**

Ohm's law states that the current through a conductor between two points is directly proportional to the voltage across the two points. Introducing the constant of proportionality, the resistance, one arrives at the usual

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mathematical equation that describes this relationship:

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

## **Ohm's law - Wikipedia**

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## **Ohms Law Practice Worksheets - Lesson Worksheets**

Ohm's Law is  $V = IR$ , where  $V$  = voltage,  $I$  = current, and  $R$  = resistance. Ohm's Law allows you to

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determine characteristics of a circuit, such as how much current is flowing through it, if you know the voltage of the battery in the circuit and how much resistance is in the circuit.

## **Introduction to circuits and Ohm's law (video) | Khan Academy**

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