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This worksheet is aimed at GCSE students studying power (part of the electricity topic). This worksheet has been created with all abilities in mind, and gets progressively more difficult down the worksheet. The answers have been provided.

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Solution. Problem 47. An electric iron is connected to the mains power supply of 220 V. When the electric iron is adjusted at 'minimum heating' it consumes a power of 360 W but at 'maximum heating' it takes a power

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of 840 W. Calculate the current and resistance in each case. Solution.

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are answers to the practice questions:  
3.8 x 10<sup>4</sup> watts. The equation for power is. The amount of work done is the difference in kinetic energy: Therefore, the power is. Plug in the numbers: 360 W. The equation for power is.



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Therefore, the power is. Plug in the numbers: 360 W. The equation for power is.

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Answers Problem 47. An electric iron is connected to the mains power supply of 220 V. When the electric iron is adjusted at 'minimum heating' it consumes a power of 360 W but at 'maximum heating' it takes a power of 840 W. Calculate the current and resistance in each case.

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What grounding does is provide a pathway to excess electricity in the event of a problem with the wiring, such as a short circuit. Image via rawpixel @rawpixel In the event a

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grounding pathway is unavailable, the excess current may flow through other materials such as wood, metal or other materials.

~~16 of the Most Common Electrical Problems and Solutions ...~~

Energy = Power x Time. Example

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problems. 1. Calculate the power of a 12V light bulb using 2.5 A.  $\text{Power} = VI = 12 \times 2.5 = 30 \text{ W}$ . 2. Calculate the current used by a 12V immersion heater that is designed to deliver 30000J in 5 minutes.  $\text{Energy} = \text{Power} \times \text{Time} = 30000$  Therefore  $30000 = \text{Power} \times 300$   $\text{Power} = 100\text{W}$ .

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~~::Welcome::~~

Following are answers to the practice questions:  $3.8 \times 10^4$  watts. The equation for power is. The amount of work done is the difference in kinetic energy: Therefore, the power is. Plug

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in the numbers: 360 W. The equation for power is. The amount of work done is the difference in kinetic energy: Therefore, the power is. Plug in the numbers: 4,500 W

~~Power Problems in Physics - dummies~~ solution. Fairly straightforward. Energy



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is power times time. Electric power is voltage times current. Energy is a scalar, so just add up the parts of the cycle and double each to get the total.

$$E = ? Pt = ? VIt. E = 2 [ (1825 \text{ V}) (7.5 \text{ A}) (30 \text{ s}) + (240 \text{ V}) (1.5 \text{ A}) (60 \text{ s}) ] E = 864,000 \text{ J}.$$

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$E=i^2.R.t=V^2/R.t$ . Electric Power. It is the energy emitted in a unit of time by the conductor. Power=Electric Energy/time. If we substitute the energy formula, we get following equation for power.  $P=V.i.t/t$ .  $P=i.V$  or

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if we put  $i.R$  in terms of  $V$  (ohm's law)  
 $P=i^2.R=V^2/R$ . Unit of the power is watt.

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Examples - Physics Tutorials~~

Electric Power Math Worksheet

Answers. 1. There are 2 A of current in a circuit that has one 1.5 V battery.

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What is the electric power consumed by the circuit?  $1.5 \text{ V} \times 2 \text{ A} = 3 \text{ VA} = 3 \text{ W}$ . Use the equation:  $P = I \times V$ .  $P$  = electric power consumed by the circuit (Watts)  $I$  = amount of current in the circuit (Amps)  $V$  = battery voltage (Volts) 2.

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The Electrical Experts at JustAnswer have handled thousands of diverse questions and problems, making safety a number one priority for everyone who depends on a home's electrical system. These questions

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include: I fixed a short circuit in the fuse box, but now the restored power has lost its voltage and can't even power a light bulb.

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answer choices . Current and Voltage .

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Power and time. Resistance and current. Power and Voltage. Tags: Question 3 . SURVEY . ... Q. Calculate the electric power of an electrical appliance in which 10 A of current is flowing through a resistor of 2 ohms. answer choices . 80 W. 200 W. 2.5 A. 22.5 KJ. Tags: Question 26 .

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~~Electrical power and energy test |  
Circuits Quiz - Quizizz~~

Double-sided A4 sheet of questions about electrical power:  $P = VI = V^2 / R = I^2 R$ ; Answer sheet with worked solutions; Powerpoint presentation (2 slides) with answers for display;



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Probably only suitable for higher tier students. Final question is 'stretch and challenge' - goes into the power-matching situation for internal resistance.

~~GCSE physics / combined science:  
Electrical power ...~~

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If your neighbours don't have power. If your neighbours don't have power or the street lights are off, there may be a power cut in your area. If you have a power cut, call 105 to get up-to-date information. They should also be able to let you know when the power will be back on. You can call 105 from most

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phones.

~~Power cuts Gas and electricity SSE~~

This is a transcript of our YouTube video covering most common electric shower faults. Scroll below to watch the full video. Here at The Shower Doctor, everyday we receive emails

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and phone calls from people that have faults with their electric shower, so what we are about to do here is run through the top 5 faults with electric showers and give you some idea of where to look to find where the ...

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Problems practice. Read the following description of the execution of Kenneth Stewart in Virginia on 23 September 1998. The electric cycle, 1825 volts at approximately 7.5 amps for 30 seconds, then 240 volts at

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approximately 1.5 amps for 60 seconds... a 5 second pause intervenes, and the cycle is repeated, was designed to render the condemned brain dead within the first few moments. The ...

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