

## ELECTRICAL POWER WORKSHEET

$$\text{Power} = \text{Potential Difference} \times \text{Current}$$

$$P = V \times I$$

$$\text{Power} = \text{Current}^2 \times \text{Resistance}$$

$$P = I^2 \times R$$

1. Jarmin builds a circuit with a bulb, an ammeter and a 6V battery. The ammeter reads 2A, what is the power supplied to the bulb?

$$6 \times 2 = 12\text{W}$$

2. A resistor of 8Ω has a current flowing through it of 3A, what is the power supplied to the resistor?

$$3^2 \times 8 = 9 \times 8 = 72\text{W}$$

3. An LED has a measured power output of 12W. If the voltage of the attached battery is 3V, what is the current flowing through the LED?

$$12 \div 3 = 4\text{A}$$

4. An electric hob has a power output of 2000W and a current flowing through it of 10A.  
a. What is the potential difference across the hob?

$$2000 \div 10 = 200\text{V}$$

- b. What is the resistance of the hob?

$$2000 \div 10^2 = 2000 \div 100 = 20\Omega$$

5. Josef needs to change the fuse in his television. He reads the manual and discovers that the television requires a power input of 2500W to work. Josef has a 3A, a 5A and a 13A fuse. Knowing that the UK mains voltage is 230V, which fuse should he choose?

$$2500 \div 230 = 10.87\text{A, so 13A fuse}$$

6. In the 30 seconds it takes for a kettle to boil, it is supplied with 18000 Joules of energy and 1200 Coulombs.

- a. What is the power supplied to the kettle?

$$18000 \div 30 = 600\text{W}$$

- b. What is the current flowing through the kettle?

$$1200 \div 30 = 40\text{A}$$

- c. What is the potential difference across the kettle?

$$600 \div 40 = 15\text{V}$$

- d. What is the resistance of the kettle?

$$600 \div 40^2 = 600 \div 1600 = 0.375\Omega$$

# Math Skills Electric Power Answers

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## **Math Skills Electric Power Answers:**

## Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Math Skills Electric Power Answers**

In some sort of inundated with displays and the cacophony of instantaneous conversation, the profound energy and emotional resonance of verbal artistry usually fade in to obscurity, eclipsed by the continuous barrage of sound and distractions. However, situated within the musical pages of **Math Skills Electric Power Answers**, a captivating function of literary elegance that pulses with natural emotions, lies an remarkable trip waiting to be embarked upon. Penned with a virtuoso wordsmith, that mesmerizing opus manuals visitors on a mental odyssey, gently exposing the latent potential and profound affect embedded within the complicated web of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is key styles, dissect its captivating publishing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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