

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 Work And Energy Answers

Roman Wölfel



Math Skills Work And Energy Answers:

Math Skills Work And Energy Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Math Skills Work And Energy Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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