

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 Answer Key

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Table of Contents Math Skills Electric Power Answer Key

1. Understanding the eBook Math Skills Electric Power Answer Key
 - The Rise of Digital Reading Math Skills Electric Power Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Math Skills Electric Power Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Math Skills Electric Power Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math Skills Electric Power Answer Key
 - Personalized Recommendations
 - Math Skills Electric Power Answer Key User Reviews and Ratings
 - Math Skills Electric Power Answer Key and Bestseller Lists
5. Accessing Math Skills Electric Power Answer Key Free and Paid eBooks
 - Math Skills Electric Power Answer Key Public Domain eBooks
 - Math Skills Electric Power Answer Key eBook Subscription Services
 - Math Skills Electric Power Answer Key Budget-Friendly Options
6. Navigating Math Skills Electric Power Answer Key eBook Formats

- ePub, PDF, MOBI, and More
 - Math Skills Electric Power Answer Key Compatibility with Devices
 - Math Skills Electric Power Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math Skills Electric Power Answer Key
 - Highlighting and Note-Taking Math Skills Electric Power Answer Key
 - Interactive Elements Math Skills Electric Power Answer Key
 8. Staying Engaged with Math Skills Electric Power Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math Skills Electric Power Answer Key
 9. Balancing eBooks and Physical Books Math Skills Electric Power Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math Skills Electric Power Answer Key
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Math Skills Electric Power Answer Key
 - Setting Reading Goals Math Skills Electric Power Answer Key
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Math Skills Electric Power Answer Key
 - Fact-Checking eBook Content of Math Skills Electric Power Answer Key
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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