



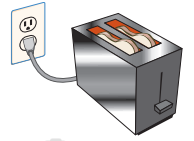
Name _____ Class _____ Date _____

1 A **watt** is a measure of **electrical** _____.
Circle the answer.

- resistance work
- power current



6 The electric toaster shown below is using **2 amperes** and is plugged into a **110-volt** electrical socket. What is the **wattage** of the toaster?

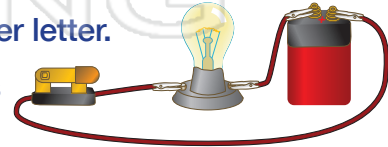


_____ W $W = V \times A$

2 German physicist George Ohm formulated Ohm's law through his study of electric current. Using **Ohm's law**, calculate the resistance in ohms (Ω) if the **current is 6 amperes** and the **voltage is 12**.

_____ Ω $R = \frac{V}{I}$

7 What is the **function** of the **switch** shown in the diagram below?
Circle the answer letter.



- a. it increases the voltage

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PREVIEW

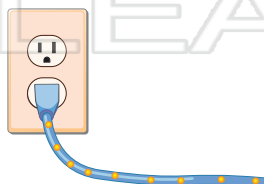
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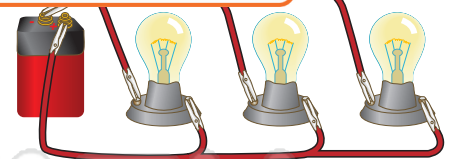
_____ kW $1 \text{ kW} = \frac{1,000 \text{ W}}{\text{hour}}$

5 **Electric current** is the **continuous flow** of _____ through a substance.

- volts protons
- watts electrons



10 Why is **parallel wiring** in a home **better** than **series wiring**?
a. fuses can be used
b. if one part of the circuit goes bad, the other parts still work
c. parallel wiring is less expensive



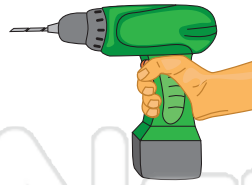


Electricity - Answer Key

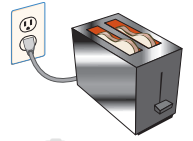
Name _____ Class _____ Date _____

1 A **watt** is a measure of **electrical** _____.
Circle the answer.

- resistance
- work
- power**
- current



6 The electric toaster shown below is using **2 amperes** and is plugged into a **110-volt** electrical socket. What is the **wattage** of the toaster?



220 W

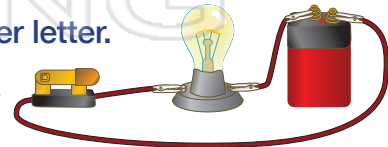
$$W = V \times A$$

2 German physicist George Ohm formulated Ohm's law through his study of electric current. Using **Ohm's law**, calculate the resistance in ohms (Ω) if the **current is 6 amperes** and the **voltage is 12**.

2 Ω

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

7 What is the **function** of the **switch** shown in the diagram below?
Circle the answer letter.



- a. it increases the voltage

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PREVIEW

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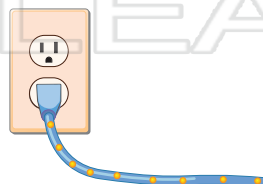
0.2 kW

$$200 \text{ watts} \div 1,000 = 0.2 \text{ kilowatts}$$

$$1 \text{ kW} = \frac{1,000 \text{ W}}{\text{hour}}$$

5 **Electric current** is the **continuous flow** of _____ through a substance.

- volts
- protons
- watts
- electrons**



10 Why is **parallel wiring** in a home **better** than **series wiring**?

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