Sci F
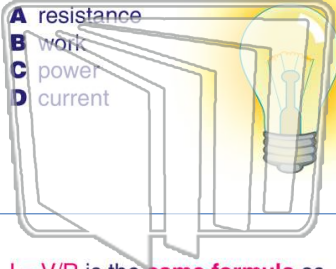
Name_____ Class_____ Date_____

1 A **watt** is a measure of electrical _____.

A resistance
B work
C power
D current

2 In the early 1800s, 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**.

A 2 Ω   C 6 Ω
B 3 Ω   D 12 Ω

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

3 I = V/R is the **same formula** as _____.

A I = R/V

4 Use the **wattage** in the picture to calculate the **amperes** being used by the lightbulb shown below. The **bulb in the picture** is ...
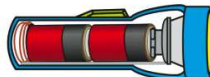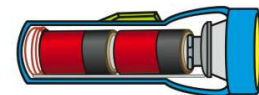
5

PREVIEW

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7

A generate power
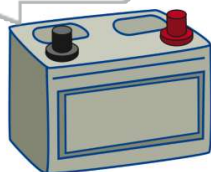B supply voltage
C decrease amperes
D decrease resistance
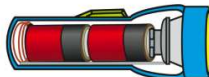
A it breaks
B it increases amperes
C it loses voltage
D it gains resistance
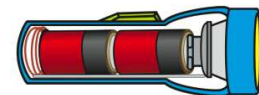
9 The function of a **car battery** is to _____.

A start the car
B power the brakes
C power the engine
D use only for emergencies

10 A **2-volt** light bulb does not work with a **1-volt** battery. What is the reason for this?

A there is not enough resistance
B there are too many amperes
C there is not enough electrical potential
D there is too much voltage

Name_____ Class_____ Date_____

1 A **watt** is a measure of electrical _____.

A resistance
B work
C power
D current

C

2 In the early 1800s, 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**.

A 2 Ω   C 6 Ω
B 3 Ω   D 12 Ω

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

A

3 I = V/R is the **same formula** as _____.

A I = R/V

4 Use the **wattage** in the picture to calculate the **amperes** being used by the lightbulb shown below. The **bulb in the picture** is ... **110 v...**

C

5

B

PRE**VIEW**

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7

A generate power
B supply voltage
C decrease amperes
D decrease resistance
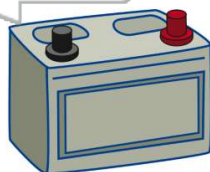
B

A it breaks
B it increases amperes
C it loses voltage
D it gains resistance

C

9 The function of a **car battery** is to _____.

A start the car
B power the brakes
C power the engine
D use only for emergencies

A

10 A **2-volt** light bulb does not work with a **1-volt** battery. What is the reason for this?

A there is not enough resistance
B there are too many amperes
C there is not enough electrical potential
D there is too much voltage

C