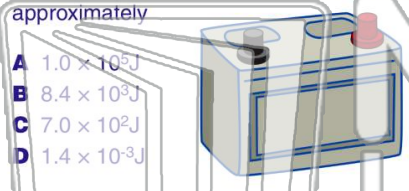




Name _____ Class _____ Date _____

1 A **12-volt** automobile battery has 8.4×10^3 **coulombs** of electric charge. The amount of electrical energy **stored** in the battery is approximately



- A $1.0 \times 10^5 \text{ J}$
- B $8.4 \times 10^3 \text{ J}$
- C $7.0 \times 10^2 \text{ J}$
- D $1.4 \times 10^{-3} \text{ J}$

2 A **negatively** charged plastic comb is brought close to, but does **not** touch, a small piece of paper. If the comb and the paper are **attracted** to each other, the **charge** on the paper



- A may be negative or neutral
- B may be positive or neutral
- C must be negative
- D must be positive

3 In an electric field, **0.90 joule** of work is required to bring **0.45 coulomb** of charge from point A to point B. What is the **electric potential difference** between

4 In a flashlight, a battery provides a total of **3.0 volts** to a bulb. If the flashlight bulb has an **operating resistance of 5.0 ohms**,



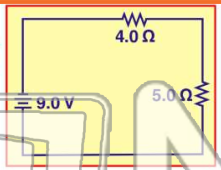
5

PREVIEW

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7 the diagram below.
What is the **current** in the **5.0-ohm** resistor?

- A 1.0 A
- B 1.8 A
- C 2.3 A
- D 4.0 A



10.0-volt battery. If the potential drop across the 100-ohm resistor is 4.00 volts, the **resistance** of the **unknown** resistor is

- A 50.0 Ω
- B 100 Ω
- C 150 Ω
- D 200 Ω

9 If the **potential difference** applied to a fixed resistance is **doubled**, the **power** dissipated by that resistance

- A remains the same
- B doubles
- C halves
- D quadruples

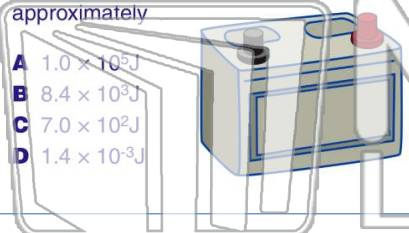
10 Two protons are located one meter apart. Compared to the **gravitational force** of attraction between the two protons, the **electrostatic force** between the protons is

- A stronger and repulsive
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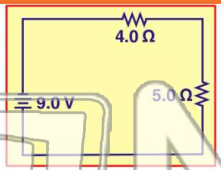


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