



Name _____ Class _____ Date _____

1 Moving **2.0 coulombs of charge** a distance of **6.0 meters** from point *A* to point *B* within an electric field requires a **5.0-newton force**. **What is the electric potential difference between points *A* and *B*?**

- A 60 V
- B 30 V
- C 15 V
- D 2.5 V

2 A metal sphere having an **excess of +5 elementary charges** has a **net electric charge** of

- A $1.6 \times 10^{-19} \text{ C}$
- B $8.0 \times 10^{-19} \text{ C}$
- C $5.0 \times 100 \text{ C}$
- D $3.2 \times 019 \text{ C}$



NEWPATH LEARNING

3 A lightning bolt transfers **6.0 coulombs** of charge from a cloud to the ground in **2.0×10^{-3} second**. **What is the average current**

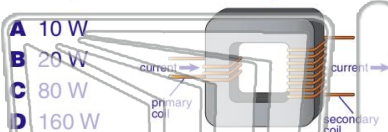
4 The graph below shows the relationship between the **work done** on a charged body in an electric field and the **net charge** on the body.



5 **PREVIEW**
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7 in the **secondary coil**. If **20 watts** of power is supplied to the primary coil, the **power developed in the secondary coil** will be

- A 10 W
- B 20 W
- C 80 W
- D 160 W



positive charge **accumulates** because the glass rod

- A gains electrons
- B gains protons
- C loses electrons
- D loses protons



9 How much time is required for an operating **100-watt** light bulb to **dissipate 10 joules** of electrical energy?

- A 1 s
- B 0.1 s
- C 10 s
- D 1000 s



10 An electrostatic force of **20 newtons** is exerted on a charge of **8.0×10^{-2} coulomb** at point *P* in an electric field. **The magnitude of the electric field intensity at *P*** is

- A $4.0 \times 10^{-3} \text{ N/C}$
- B 1.6 N/C
- C 20 N/C
- D $2.5 \times 10^2 \text{ N/C}$



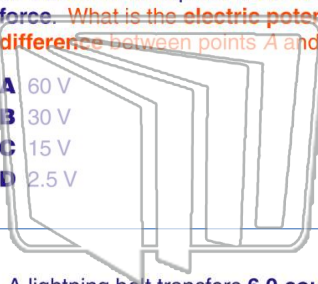
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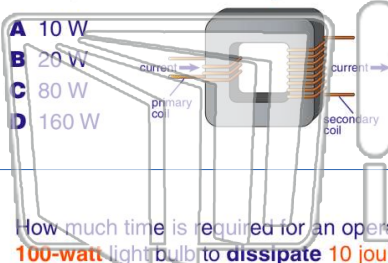


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