

Name: _____ Date: _____

- Marc pulled a pair of pants out of the dryer. A sock was stuck to the pants. Marc knows that static electricity made this happen. Circle which combination of charges may have made the sock stick to the pants.
 - pants +, socks +
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- Sam has created a simple circuit. He uses wire, a battery, and a light bulb. One at a time, he places four objects between two free wires.

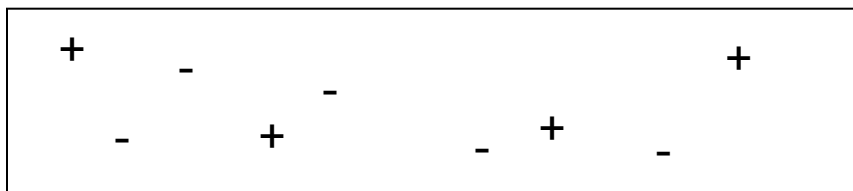
Object	Lit or Unlit?
1	unlit
2	lit
3	unlit
4	unlit

Which object is a conductor of electricity?

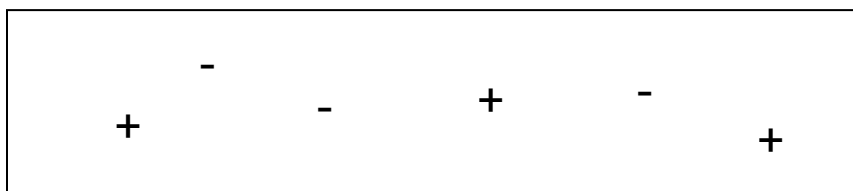
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- 4

3. Look at the models below. The models show electrons and protons on the surface of four objects. Which object is positively charged?

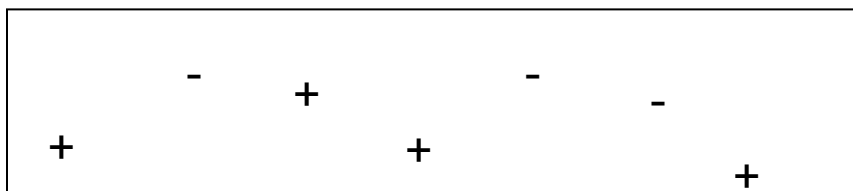
A.



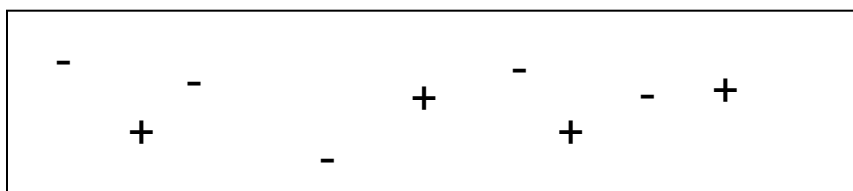
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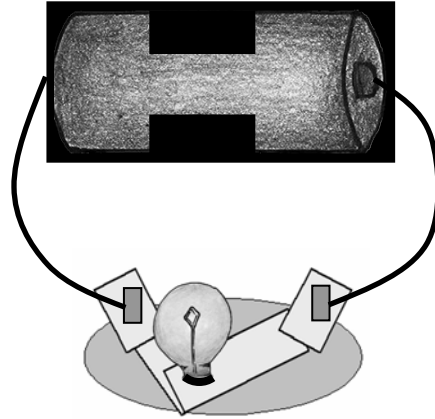
C.



D.



4. What type of circuit does this diagram show?



- A. a simple circuit
- B. a parallel circuit
- C. a series circuit

5. In the diagram of the circuit in question #4, what is the source of energy?

- A. the light bulb
- B. the bulb holder
- C. the wires
- D. the battery

6. Ty made a circuit using two bulbs. Both bulbs lit. When he took out one bulb, the other bulb went out. It was no longer lit. Why?

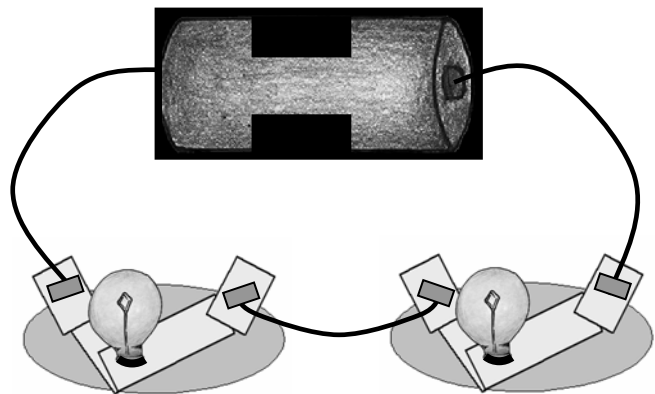
- A. The circuit was not complete.
- B. The battery ran out of energy.
- C. The wires were too hot.
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7. Joy rubbed a balloon with wool in two trials. She wanted to make the balloon stick to the wall. The trials are listed in the table.

Trial	Number of Rubs	Did it stick?
Trial 1	3	No
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In Trial 2, the balloon stuck to the wall. How many times did Joy most likely rub the balloon in Trial 2?

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9. Shawn rubbed a small blue ball and a small red ball on his sweater. He put both balls on a table. Then he held the blue ball next to the red ball. The red ball rolled away from the blue ball. Which of the following reasons is most likely the right one?

Reason	Repel or Attract?	Charge of the Red Ball	Charge of the Blue Ball
1	repel	+	-
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- A. Reason 1
- B. Reason 2
- C. Reason 3
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10. Bob used a battery, a light bulb, and wires to make a complete circuit. How did he know when the circuit was complete?
- A. The battery lit.
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11. Why did Bob use wires to make a complete circuit?
- A. to allow electrical current to flow
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12. Tina tested four objects in science class. She connected them to the battery and to the light bulb. She wrote what she found in the table below.

Object	How bright was the light bulb?
1	not bright
2	bright
3	brighter
4	brightest

Which object was the best insulator of electricity?

- A. 1
- B. 2
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13. Read the sentences below. Which best describes a series circuit?
- A. Lights were dim. All lights went out when one bulb was taken out.
 - B. Lights were dim. All lights stayed on when one bulb was taken out.
 - C. Lights were bright. All lights stayed on when one bulb was taken out.
14. Amber tests nine objects in the lab. She discovers that the metal cube is a good conductor of electricity. What property makes this a good conductor?
- A. It is gray.
 - B. Is it square.
 - C. It is metal.
 - D. It is hard.
15. Maya created a circuit. She used three light bulbs. All three light bulbs turn on when she completes her circuit. When she takes out one light bulb, the other light bulbs stay on. What kind of circuit did she make?
- A. a simple circuit
 - B. a parallel circuit
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1. Marc pulled a pair of pants out of the dryer. A sock was stuck to the pants. Marc knows that static electricity made this happen. Circle which combination of charges may have made the sock stick to the pants.

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2. Sam has created a simple circuit. He uses wire, a battery, and a light bulb. One at a time, he places four objects between two free wires.

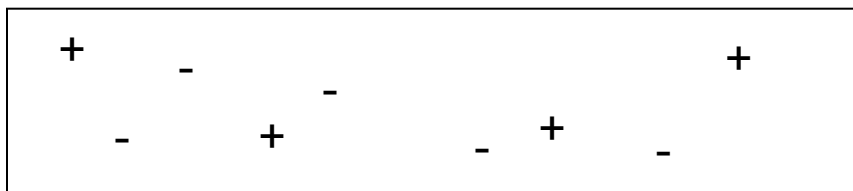
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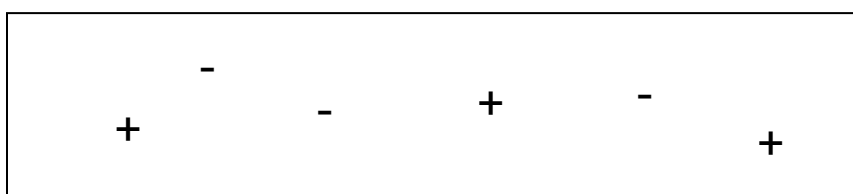
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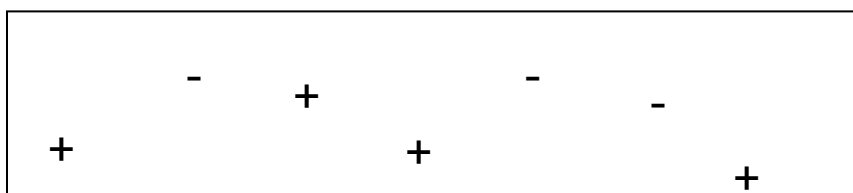
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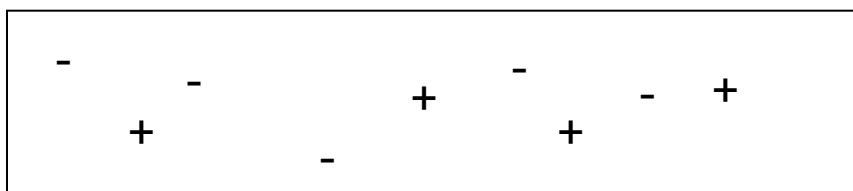
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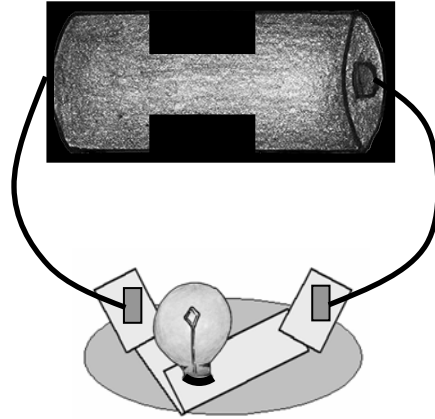
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4. What type of circuit does this diagram show?



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5. In the diagram of the circuit in question #4, what is the source of energy?

- A. the light bulb
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6. Ty made a circuit using two bulbs. Both bulbs lit. When he took out one bulb, the other bulb went out. It was no longer lit. Why?

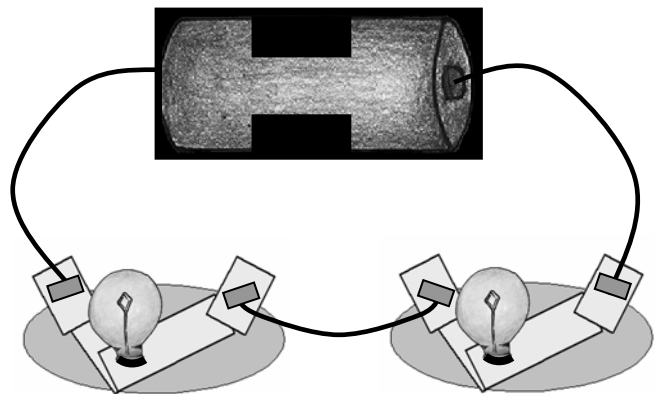
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7. Joy rubbed a balloon with wool in two trials. She wanted to make the balloon stick to the wall. The trials are listed in the table.

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In Trial 2, the balloon stuck to the wall. How many times did Joy most likely rub the balloon in Trial 2?

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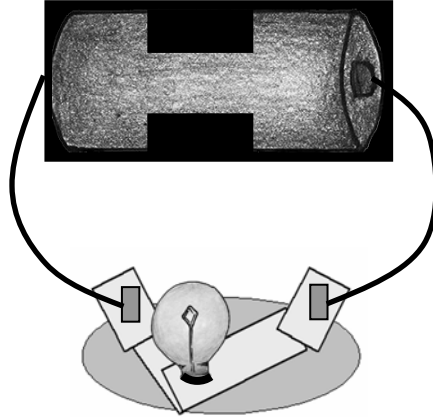
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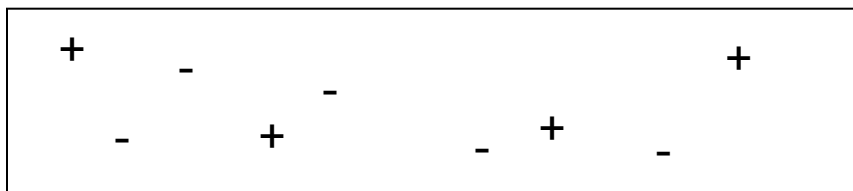
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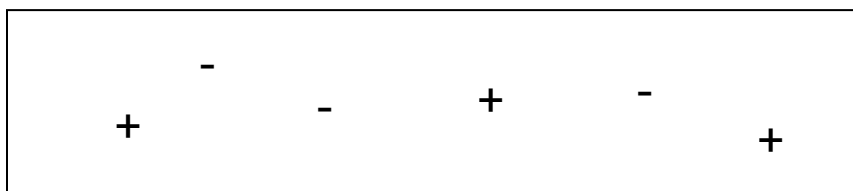
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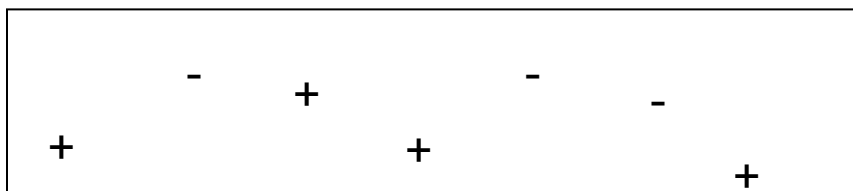
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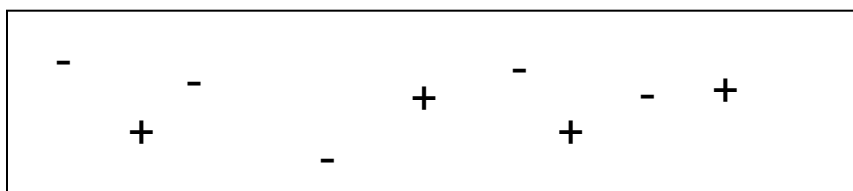
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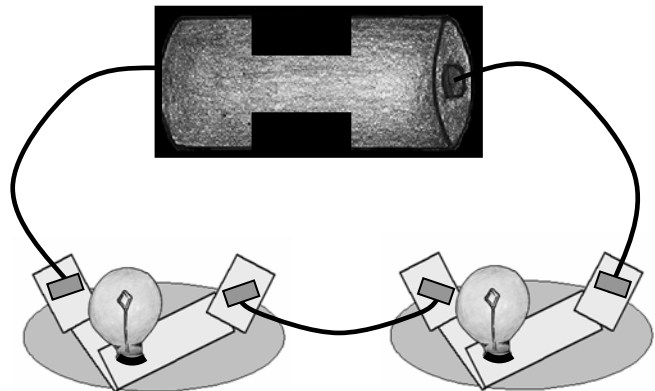
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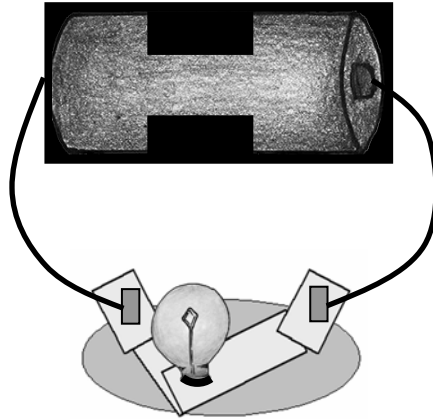
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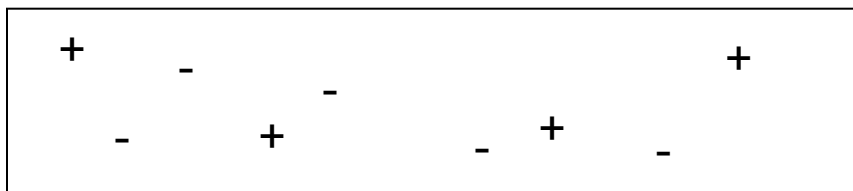
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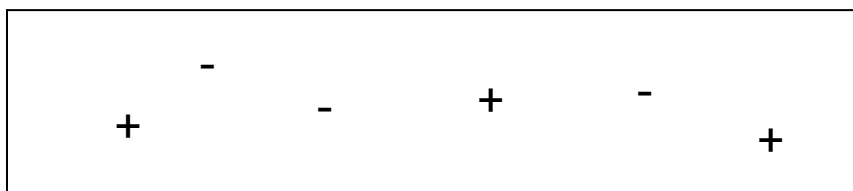
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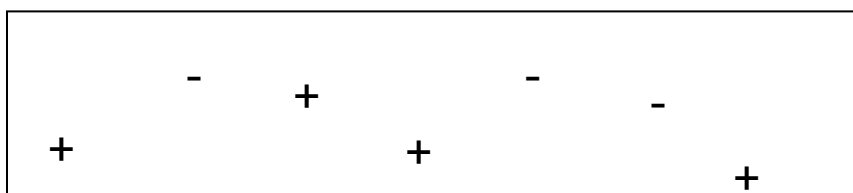
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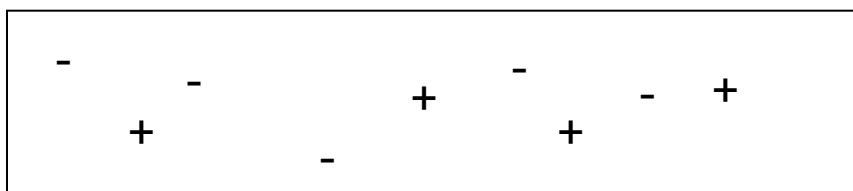
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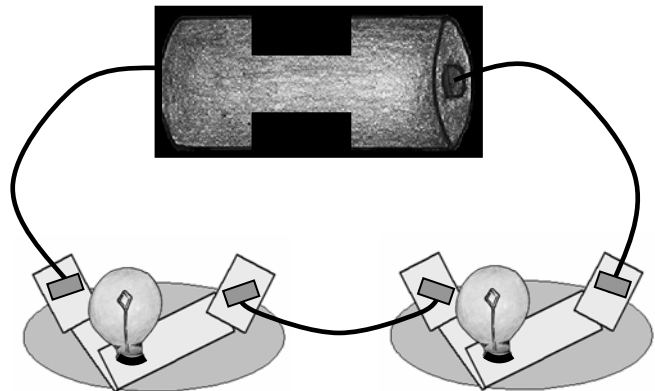
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