

Ampere Questions

Name:

Block:

1. What is electric current? State the symbol and SI unit that is used for electric current.
2. What kind of electrical charges move through a wire to form an electric current?
3. Define “conventional current” and “electron flow” in your own words.
4. Draw the following circuits:
 - a. A lamp, ammeter, switch and 2 cells in series.
 - b. A switch, ammeter, 2 cells and 2 lamps in parallel.
5. How does an ammeter connected in a circuit measure current? Draw a circuit to help you explain your answer.

6. A light bulb has 1100C (coulombs) of electric charge flowing through it every 8 minutes. What is the current of the light bulb?

7. A current of 350 mA flows through an electric motor. How long will it take 185 C of electrical charge to pass through the motor?

8. A current of 120 mA flows past a point in a circuit for 25s.
a. How much charge passes the point in this time?

b. How many electrons pass the point in this time?