

Chapter 23 Electric Current
Ohm's Law

1. How much current flows in a 1000-ohm resistor when 1.5 volts are impressed across it?

0.0015 A

2. If the filament resistance in an automobile headlamp is 3 ohms, how many amps does it draw when connected to a 12-volt battery?

4 A

3. The resistance of the side lights on an automobile is 10 ohms. How much current is in them when connected to 12 volts?

1.2 A

4. What is the current in the 30-ohm heating coil of a coffeemaker that operates on a 120-volt circuit?

4 A

5. During a lie detector test, a voltage of 6 V is impressed across two fingers. When a certain question is asked, the resistance between the fingers drops from 400,000 ohms to 200,000 ohms.

- a. What is the current initially through the fingers? 0.000015 A
b. What is the current through the fingers when the resistance between them drops? 0.000030 A

6. How much resistance allows an impressed voltage of 6 V to produce a current of 0.006 A?

1000 ohms

7. What is the resistance of a clothes iron that draws a current of 12 A at 120 V?

10 ohms

8. What is the voltage across a 100-ohm circuit element that draws a current of 1 A?

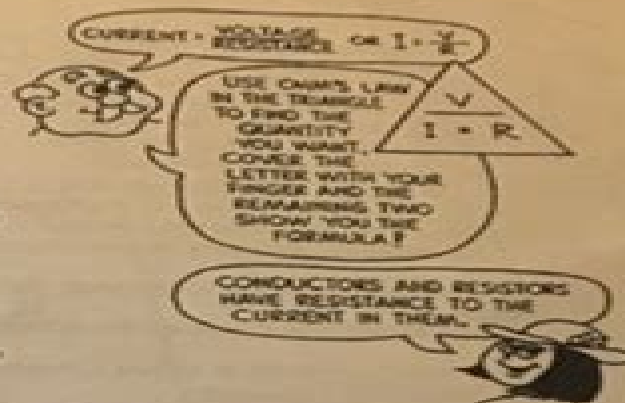
100 V

9. What voltage will produce 3 A through a 15-ohm resistor?

45 V

10. The current in an incandescent lamp is 0.5 A when connected to a 120-V circuit, and 0.2 A when connected to a 10-V source. Does the resistance of the lamp change in these cases? Explain your answer and defend it with numerical values.

yes it changes. $R = (10 \text{ V}) / (0.2 \text{ A}) = 50 \Omega$;
 $R = (120 \text{ V}) / (0.5 \text{ A}) = 240 \Omega$



OHM MY GOODNESS!



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Jiyuan Zhang



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