Circuit Sample Problems



In this circuit, what is the current through the 2ohm resistor?

a.0.2 A

b.0.8 A

c.5.0 A

d.8.0 A

How many amperes of current will flow when four 1-ohm resistors are in this series circuit?

a.0.5 amperes

- b.1.0 amperes
- c.1.5 amperes
- d.2.0 amperes





In the circuit shown above, the meter registers 1.5 amperes. The voltage across the 10.0-ohm resistor is about

- a. 1.5 C
- b. 6.7 V
- c. 8.5 V
- d. 15.0 V

What is the current through the battery? a.1 A

b.2 A

c.4 A

d.8 A



A 9-V battery is connected to a light bulb with a resistance of 3 Ω. What is the current in the circuit?

a.27 A b.3.0 A c.1.0 A d.0.3 A

An electric appliance draws 1.5 amperes of current when it is connected to a 24-volt source. What is the resistance of this appliance? a.0.063 ohm b.11 ohms c. 16 ohms

d.54 ohms



How much power is dissipated by the resistor in the circuit above?

- a.25 watts
- b.50 watts
- c.100 watts
- d.800 watts

o Answers 1. C 2. C 3. D 4. A 5. **B** 6. C 7. B