

Electric Circuits Practice Exercises

Electric Current

1. A current of 3.60A flows for 15.3 s through a conductor. Calculate the number of electrons that pass through a point of the conductor during this time.
2. How long would it take 2.0×10^{20} electrons to pass through a point in a conductor if the current was 10.0A ?
3. Calculate the current through a conductor if a charge of 5.60C passes through a point in the conductor in 15.4s .
4. What potential difference is required across a conductor to produce a current of 8.00A if there is a resistance in the conductor of 12.0Ω ?
5. What is the heat energy produced in a conductor in 25.0s if there is a current of 11.0A and a resistance in the conductor of 7.20Ω ?
6. A particular conductor produces $1.50 \times 10^2\text{ J}$ of heat in 5.50 s . If the current through the conductor is 10.0A , what is the resistance of the conductor?
7. What is the current through a $4.00 \times 10^2\text{ W}$ electric appliance when it is connected to a $1.20 \times 10^2\text{ V}$ power line?
8. a) When an electric appliance is connected to a $1.20 \times 10^2\text{ V}$ power line, there is a current through the appliance of 18.3A . What is the resistance of the appliance?
b) What is the average amount of energy given to each electron by the power line?
9. a) What potential difference is required across an electrical appliance to produce a current of 20.0A when there is a resistance in the appliance of 6.00Ω ?
b) How many electrons pass through the electrical appliance every minute?

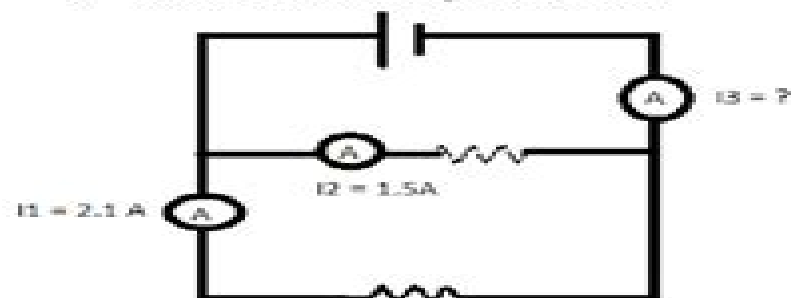
10. If electricity cost $\$0.060$ per kilowatt hour, what does it cost to operate a $1.0 \times 10^3\text{ W}$ appliance for 5.0h ?
11. A student forgets to turn off a $6.00 \times 10^2\text{ W}$ block heater of a car when the weather turns warm. If 14 h goes by before he shuts it off, how much energy is used by the heater?
12. A 45 kg object is lifted vertically at a constant speed to a height of 9.0 m by a $7.5 \times 10^2\text{ W}$ electric motor. If this motor is 25% efficient in converting electric energy to mechanical energy, how long does the motor take to lift the object?

Electric Circuits

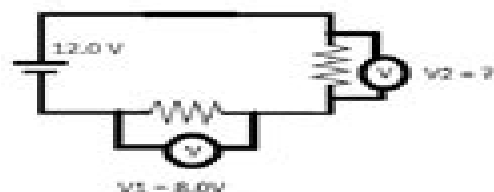
1. What are the values for I_2 and I_3 in the circuit?



2. What is the value of I_3 in the circuit?



3. What is the value of V_2 in the circuit?



Conceptual Physics 35 Electric Circuits Exercises Answers

M Woodhall



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