1. Am ampere is a
   1. Type of charge
   2. Unit of resistance
   3. Unit of current
2. Electrical resistance is measured in
   1. Volts
   2. Joules
   3. Ohms
3. When a 8-V battery is connected to a resistor, 2 A of current flows in the resistor. What is the resistor’s value?
   1. 2 ohms
   2. 4 ohms
   3. 8 ohms
4. When two light bulbs are connected in series, the
   1. Current through each light bulb is proportional to the resistance of the bulb
   2. Same amount of current always flows through the bulb
   3. Neither A or B
5. When resistors are put in series next to each other, their overall resistance is
   1. The same as the resistance of the resistors
   2. Larger than the resistance of any individual resistor
   3. Smaller than the resistance of any of the resistors
6. When resistors are put in parallel with each other their overall resistance is
   1. Smaller than the resistance of any of the resistors
   2. Larger than the resistance of any other resistors
   3. The same as the resistance of one of the resistors
7. When one light bulb is in a series circuit containing several light bulbs and that one bulb burns out burns out…
8. None of the other bulbs will light up
9. Nothing changes in the rest of the circuit
10. The other light bulbs will burn brighter
11. In a simple parallel circuit
    1. Current through each branch is always the same
    2. Voltage across each branch is always the same
    3. The value of each resistor is the same
12. Electrical devices in our homes are connected in
    1. Parallel
    2. Series
13. The total resistance of a 10-ohm resistor and a 7-ohm resistor in series is
    1. 3 ohms
    2. 2 ohms
    3. 17 ohms
14. The total resistance of a 10-ohm resistor and a 12-ohm resistor in parallel is
    1. 22ohms
    2. 73 ohms
    3. 6 ohms

1. virp diagram for 5,7,10 ohm resistors in series with a 20 v battery

2. virp diagram for 5,7,10 ohm resistors in parallel with a 20 v battery.