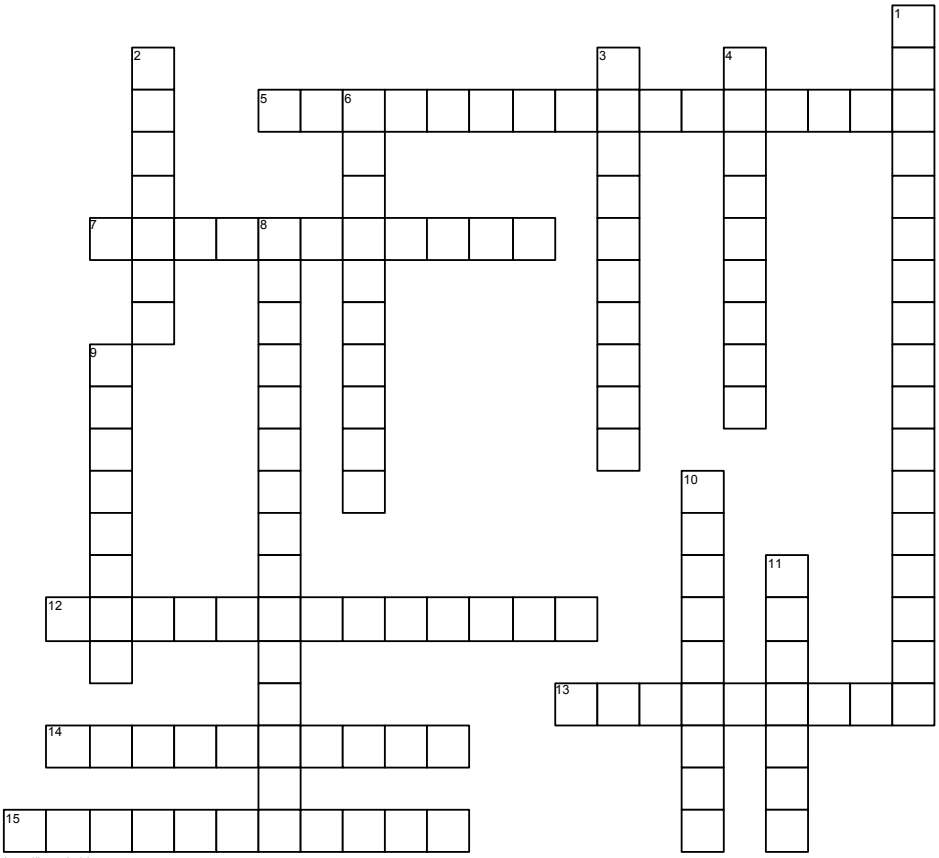
Series Circuits

Chapter 5



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ACROSS

5 Most vehicles are equipped with a method of dimming the brightness of the dash lights by turning a _____ _____.

7 _____ almost seems to act as if it knows what resistances are ahead on the long trip through a circuit.

12 A _____ _____ is a complete circuit that has only one path for current to flow through all of the electrical loads.

13 If a circuit has little or no resistance, then as many _____ as possible attempt to flow through the complete circuit.

14 The circuit must be continuous without any breaks, this is called _____.

15 A _____ ____ is the amount of electrical pressure required to push electrons through a resistance.

DOWN

1 Electrical loads or resistance connected in series behave following _____ _____ ____.

2 Voltage drop can be determined by using ____ ___ and calculating for voltage using the value of each resistance individually.

3 Any resistance in a circuit causes the voltage to drop in _____ to the amount of the resistance.

4 His voltage law states: The voltage around any closed circuit is equal to the sum of the voltage drops across the resistances.

6 A series circuit is a circuit containing more than one _____ in which all current must flow through in the circuit.

8 The _____ _____ in a series circuit is the sum total of the individual resistances.

9 An _____ can only test a wire or component that has been disconnected from the circuit and is not carrying current.

10 A German _____, Gustav Robert Kirchhoff developed laws about electrical circuits.

11 Because an electrical load needs both a power and a ground to operate, a break anywhere in a series circuit will cause the _____ in the circuit to stop.