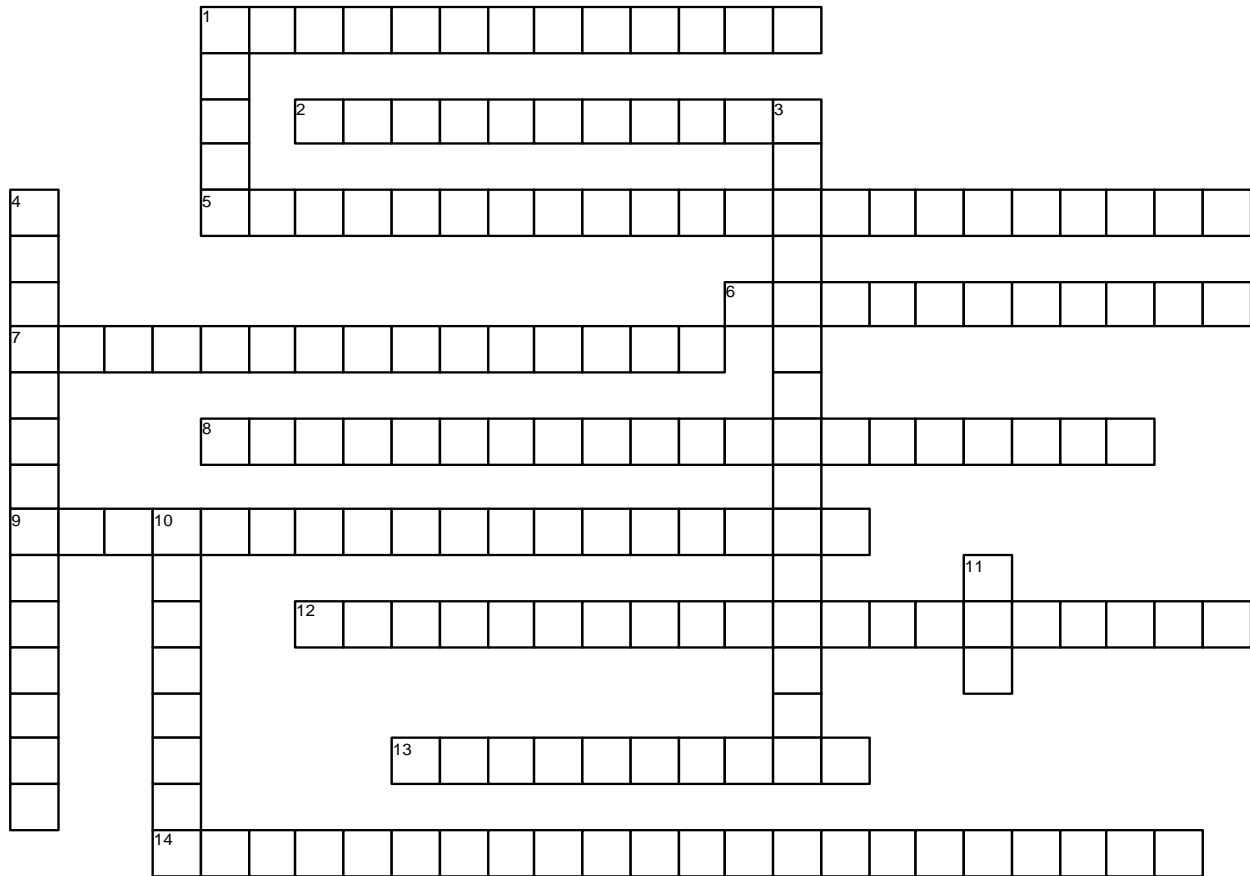


Series, Parallel, and Series-Parallel Circuits

Chapter 41



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ACROSS

- 1 A _____ is a complete circuit that has more than one electrical load where all of the current has only one path to flow through all of the loads.
- 2 The _____ can be determined by using Ohm's law and calculating for voltage using the value of each resistance individually.
- 5 If _____ is needed, Ohm's law can be used to calculate it if voltage and current are known.
- 6 _____ speeds are usually controlled by a fan switch sending current through high-, medium-, or low-resistance wire resistors.
- 7 Another name for a series-parallel circuit is a _____.
- 8 _____ states: The voltage around any closed circuit is equal to the sum of the voltage drops across the resistance.
- 9 Another name for a series-parallel circuit is a _____.
- 12 _____ states: The current

flowing into any junction of an electrical circuit is equal to the current flowing out of that junction.

- 13 Most vehicles are equipped with a method of dimming the brightness of the _____ by turning a variable resistor.
- 14 _____ are a combination of series and parallel segments in one complex circuit.

DOWN

- 1 Another name for a branch is a _____.
- 3 A _____ is a complete circuit that has more than one path for the current.
- 4 Because an _____ needs both a power and a ground to operate, a break anywhere in a series circuit will cause the current in the circuit to stop.
- 10 The separate paths which split and meet at junction points are called _____.
- 11 Another name for a branch is a _____.