Automotive Technology 7th Edition
Chapter 38: Series, Parallel, and Series-Parallel Circuits
Matching Quiz

Name: _____ Date: _____

Matching: Choose the item in column 2 that best matches each item in column 1.

1. Series Circuit	A. A circuit with more than one electrical load where current has only one path.	1. _____
2. Parallel Circuit	B. The sum of the voltage drops in a series circuit.	2. _____
3. Kirchhoff's Voltage Law	C. The total resistance of a parallel circuit with identical resistors.	3. _____
4. Kirchhoff's Current Law	D. A circuit where current divides and flows through two or more paths.	4. _____
5. Voltage Drop	E. The sum of the currents entering a junction equals the sum of the currents leaving it.	5. _____
6. Compound Circuit	F. The type of circuit that has branches or legs.	6. _____
7. Calculating Total Resistance in Parallel	G. A reduction in electrical potential energy as current flows through a load.	7. _____
8. Total Resistance in Parallel (Identical Resistors)	H. Often called a series-parallel circuit.	8. _____
9. Open Circuit in Series	I. Used to determine the total resistance of parallel circuits, especially with many resistors.	9. _____
10. Solving Series-Parallel Circuits	J. Causes current to stop flowing through the entire circuit.	10. ____

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Answer Key

Answer Key:

1. A
2. D
3. B
4. E
5. G
6. H
7. I
8. C
9. J
10. F