A	NSWER. Write the word or phrase that best completes each statement or answers the question.
	Explain why an increase in resistance in the series part of a series-parallel circuit will affect the curre (amperes) through the parallel legs (branches).
-	
2) '	What would be the effect of an open circuit in a series portion of a series-parallel circuit?
-	
3) '	What would be the effect of an open circuit in one leg of a parallel portion of a series-parallel circuit
-	
4) '	Why are series-parallel circuits used in automotive applications?
-	
5) '	What automotive circuits are in series-parallel?
-	

Answer Key

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1) If the resistance increases in the series portion of a series-parallel circuit, the voltage is dropped and the current is reduced through the circuit.

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- 2) If an open circuit were to occur in the series portion of a series-parallel circuit, it would stop the flow of current through the rest of the circuit or the parallel leg where the open occurred.
- 3) An open in one branch of a parallel leg of a series-parallel circuit will affect only those components in the parallel leg that has the open.

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- 4) If a conventional parallel circuit, such as a taillight circuit, had an electrical fault that increased the resistance in one branch of the circuit, the amount of current flow through that branch will be reduced.

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- 5) A headlight and starter circuit is an example of this type of series—parallel circuit. A headlight switch is usually connected in series with a dimmer switch and in parallel with the dash light dimmer resistors. The headlights are also connected in parallel along with the taillights and side-marker lights.

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