

Name \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

1) What is the purpose of the terminating resistors?

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2) Why are the two wires twisted if used for network communications?

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3) What are U codes?

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4) Why is a gateway module used?

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5) Why is a communication network used?

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## Answer Key

Testname: AEEP8\_SHORT14

1) Terminating resistors are used to help reduce interference into other systems in the vehicle. Usually two 120-ohm resistors are installed at each end and are, therefore, connected electrically in parallel. Two 120-ohm resistors connected in parallel would measure 60 ohms if tested using an ohmmeter.

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2) Two wires are twisted to reduce electromagnetic interference (EMI).

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3) U codes were at first undefined, but are now used to represent network communication-related diagnostic trouble codes (DTCs).

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4) A gateway module is responsible for communicating with other modules and acts as the main communication module for scan tool data.

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5) A communication network is used to reduce the number of wires and circuits needed in a vehicle by allowing common sensor data to be shared by all modules that need the information.

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