

Name \_\_\_\_\_

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

1) How does a “reheat” system work and why?

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2) Where does the air enter the vehicle when outside air is selected?

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3) What do the three main HVAC doors do?

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4) In the heating mode, why is heat directed toward the floor?

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5) Where is the air directed when the control panel is set to defog/defrost position?

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## Answer Key

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1) Most HVAC systems are considered reheat systems in that the incoming air is chilled as it passes through the evaporator. This allows removal of moisture by the evaporator's cold temperature. The air is then heated as part or all of the flow passes through the heater core so it reaches the desired in-vehicle temperature.

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2) Air enters the duct system from the plenum chamber in front of the vehicle's windshield (outside air).

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3) The three doors include:

- An air inlet door is used to select outside or inside air inlet.
- A temperature-blend door is used to adjust air temperature.
- A mode door is used to select air discharge location.

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4) Proper temperature control to enhance passenger comfort during heating should maintain an air temperature in the footwell about 7°F to 14°F (4°C to 8°C) above the temperature around the upper body. This is done by directing the heated airflow to the floor.

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5) In the defog or defrost mode position, the air is directed through the evaporator to remove the moisture from the air before being sent through the heater core to warm the air.

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