



Name

Period

Date

SECTION  
**28.3**

INTERACTIONS AMONG SYSTEMS

**Study Guide**

**KEY CONCEPT**

Systems interact to maintain homeostasis.

**VOCABULARY**

thermoregulation

**MAIN IDEA:** Each organ affects other organ systems.

1. The organs in the body work together like members of a pit crew servicing a race car. What other analogies can you think of to illustrate organ systems working together?

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2. Fill in the table below to explain what each organ does to help produce vitamin D in your body.

| Organ   | Function |
|---------|----------|
| Skin    |          |
| Liver   |          |
| Kidneys |          |

3. What role does the hypothalamus play to help regulate body temperature?

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**MAIN IDEA:** A disruption of homeostasis can be harmful.

4. List three reasons why homeostasis in the body might be disrupted.

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## Section 28.3 STUDY GUIDE CONTINUED

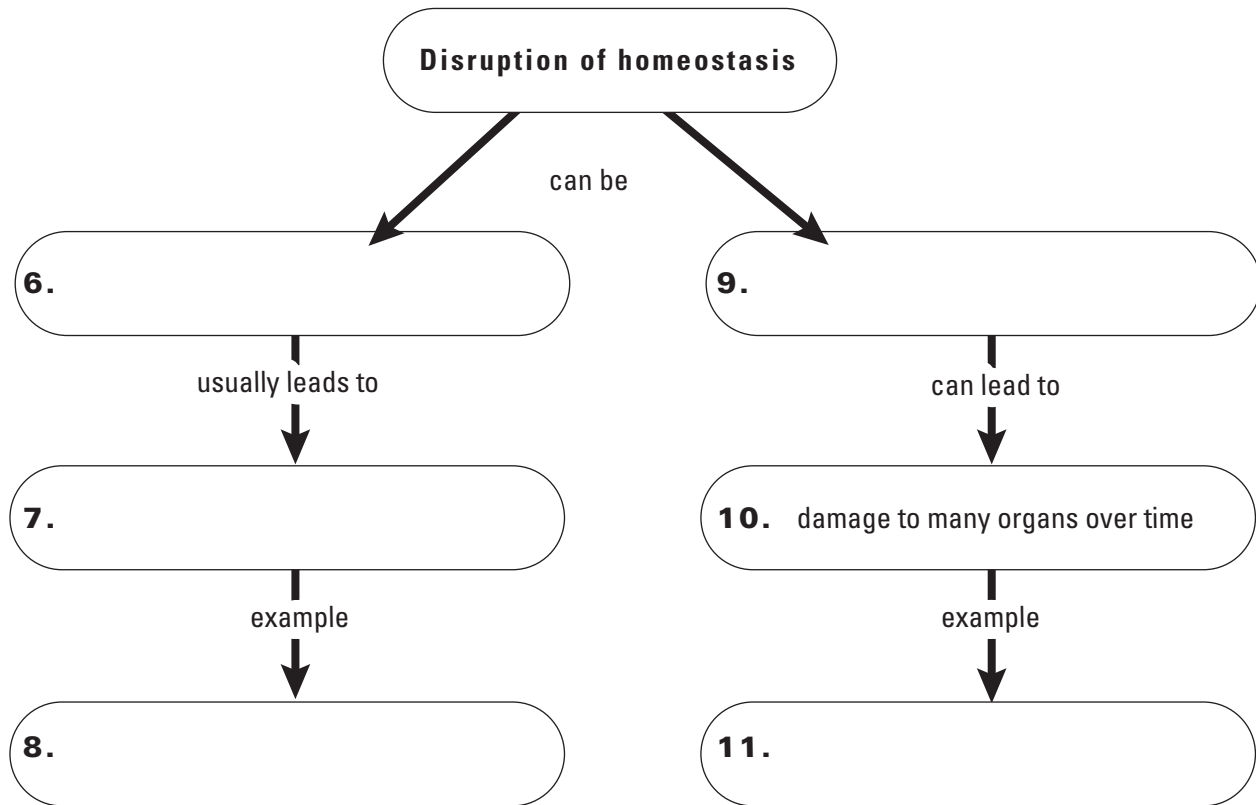
5. Why is a long-term disruption of homeostasis usually more serious than a short-term disruption?

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Fill in the concept map to help you remember what you know about long-term and short-term disruption of homeostasis.



### Vocabulary Check

11. Think of a diagram that might illustrate the term *thermoregulation* for someone unfamiliar with the word. Use the space below to sketch your diagram.