 Section 35–1 Human Key Concepts How is the human body organized? What is homeostasis? 	Body Systems (pages 891–896)
a b c d	ges 891–894) ulticellular organism, from smallest to largest.
Match the organ system with its function.	T
Organ System 2. Nervous system 3. Skeletal system 4. Integumentary system 5. Endocrine system 6. Lymphatic/immune systems 7. Muscular system 8. Reproductive system 9. Respiratory system 10. Excretory system 11. Circulatory system 12. Digestive system	 a. Stores mineral reserves and provides a site for blood cell formation b. Provides oxygen and removes carbon dioxide c. Coordinates the body's response to changes in its internal and external environments d. Helps produce voluntary movement, circulate blood, and move food e. Controls growth, development, metabolism, and reproduction f. Eliminates wastes and maintains homeostasis g. Serves as a barrier against infection and injury h. Converts food so it can be used by cells i. Helps protect the body from disease j. Produces reproductive cells k. Brings materials to cells, fights infection, and helps to regulate body temperature
13. What are four types of tissues found	in the human body?

Name	Class	Date
16. Circle the letter of the ty	pe of tissue that connects body pa	arts.
a. nervous	c. epithelial	
b. connective	d. integumentary	
Maintaining Homeo		
17. The process of maintain	iing a controlled, stable internal e	environment is called
-	stimulus produces a response that	• • •
19. Fill in the missing labels	in the diagram to show how a the	rmostat uses feedback
inhibition to maintain a	stable temperature in a house.	
	temperature change and switches off heating system	
	Thermostat senses temperature change and	
20. Is the following sentence	switches on heating system te true or false? The part of the br	rain that monitors and contro
body temperature is the	e hypothalamus	
21. What happens if nerve	cells sense that the core body terr	perature has dropped

22. What happens if the body temperature rises too far above 37°C? ___

d. muscle

a. nervousb. connective

Name	Class	Date	Name	Class	Date
Section 35-2 Th	ne Nervous Syst	tem (pages 897–900)	The Nerve Impulse	e (pages 898–899)	
Key ConceptsWhat are the functions of	the nervous system?		7. The electrical charge	across the cell membrane of a neu	iron in its resting state is called its
• How is the nerve impulse	•		8. How does a nerve in	npulse begin?	
Introduction (page 897)					
1. What is the function of the	nervous system?		9. Circle the letter of the	e choice that describes an action pes due to the flow of positive ions	
Neurons (pages 897–898) 2. How are neurons classified			c. Change to a negat	ve ions in a neuron due to the flov tive charge due to the flow of sodi es due to the flow of negative ions	um ions out of a neuron
3. What are three types of neu	rons?		10. The minimum level of	of a stimulus that is required to ac	tivate a neuron is called the
a b			11. How does a nerve in	npulse follow the all-or-nothing p	rinciple?
c.4. Is the following sentence true and the spinal cord to musc5. Label the following features	ue or false? Sensory neurons		The Synapse (page 12. What are neurotrans:	900) mitters?	
	Ü	. /			
			13. Describe what happe	ens when an impulse arrives at an	axon terminal.

Reading Skill Practice

When you read about a complex process, representing the process with a diagram can help you understand it better. Make a diagram to show how a nerve impulse is transmitted from one cell to another. Do your work on a separate sheet of paper.

Name	Class	Date	Name	Class	Date	
Section 35-3 Div (pages 901-905)	isions of the Ner	vous System	15. The two regions of the br	ain stem are the	and the	
Key Concepts			The Spinal Cord (page	. 002\		
 What are the functions of th 	e central nervous system?		The Spinal Cord (page 903)			
	e two divisions of the periphera	l nervous system?	16. What is the advantage of a reflex?			
Introduction (page 901)	1 1	,				
1. What is the function of the ce	entral nervous system?					
			The Peripheral Nervo	us System (pages 903–904)	
-			17. Circle the letter of each ch	noice that is part of the peripher	al nervous system.	
The Central Nervous System (page 901)			a. cranial nerves	c. ganglia		
2. The central nervous system of		and the	b. spinal nerves	d. spinal cord		
			18. Complete the concept ma	p.		
3. Is the following sentence true	e or false? Three layers of connec	ctive tissue known as				
meninges protect the brain as	nd spinal cord		(Na	Peripheral		
4. The brain and spinal cord are	e bathed and protected by	·	Ne	ervous System		
The Brain (pages 902-903)	The Brain (pages 902-903)		is	separated into		
Match the part of the brain with its j	function.					
Part of Brain	Function		*	<u> </u>		
5. Cerebrum	a. Coordinates and balances	the actions of the muscles				
6. Cerebellum 7. Brain stem	b. Regulates the flow of infor and the rest of the body	rmation between the brain				
8. Thalamus	c. Controls voluntary activiti	ies of the body		consis	ts of	
9. Hypothalamus	d. Controls hunger, thirst, fat temperature	igue, anger, and body		•	•	
	e. Receives and relays messa	ges from the sense organs		Somatic nervous system		
10. The two hemispheres of the b	orain are connected by a band of	f tissue called the				
	_·		19. Circle the letter of each ac	ctivity that is controlled by the s	omatic nervous system.	
11. Identify the four lobes of the	11. Identify the four lobes of the brain.		a. Beating of the heart	c. Wiggling the toes		
a	c		b. Lifting a finger	d. Pulling foot away	from tack	
b	d		20. What does the autonomic	nervous system regulate?		
12. Is the following sentence true	*	of the cerebrum controls		. •		
the body's left side						
13. Is the following sentence true or false? The outer layer of the cerebrum is called the cerebral cortex		21. Why is it important to ha	ve two systems that control the	same organs?		
14. What is gray matter, and who						
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