Section 35–3 Divisions of the Nervous System (pages 901–905)

This section describes the major divisions of the nervous system and explains their functions.

Introduction (page 901)

1. What is the function of the central nervous system?

The Central Nervous System (page 901)

- 2. The central nervous system consists of the ______ and the
- 3. Is the following sentence true or false? Three layers of connective tissue known as meninges protect the brain and spinal cord.
- 4. The brain and spinal cord are bathed and protected by ______.

The Brain (pages 902–903)

Match the part of the brain with its function.

Part of Brain	Function
 5. Cerebrum	a. Coordinates and balances the actions of the muscles
 6. Cerebellum	b. Regulates the flow of information between the brain
 7. Brain stem	and the rest of the body
8. Thalamus	c. Controls voluntary activities of the body
 9 Hypothalamus d.	d. Controls hunger, thirst, fatigue, anger, and body temperature
	e. Receives and relays messages from the sense organs

10. The two hemispheres of the brain are connected by a band of tissue called the

11. Identify the four lobes of the brain.

- a. _____ C. _____
- b. _____ d. _____
- **12.** Is the following sentence true or false? The left hemisphere 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.

14. What is gray matter, and where is it found?

Jame	Class	Date
5. The two regions of the b	prain stem are the	and the
The Spinal Cord (page 9	903)	
16. What is the advantage of	of a reflex?	
The Peripheral Nervou	1s System (pages 903–904)	
17. Circle the letter of each	choice that is part of the periphe	eral nervous system.
a. cranial nerves	c. ganglia	
b. spinal nerves	d. spinal cord	
8. Complete the concept m	nap.	
	Peripheral lervous System	
	lervous System	
is	separated into	
	1	
	consists of	
	Somatic nervous system	
	activity that is controlled by the	•
a. Beating of the heart	c. Wiggling the toes	
b. Lifting a finger	d. Pulling foot away	
11 M/hat doog the automore	ic nervous system regulate?	