Name	Class	Date
· varic	C1435	Date

Section 35-2 The Nervous System (pages 897-900)

Solution Key Concepts

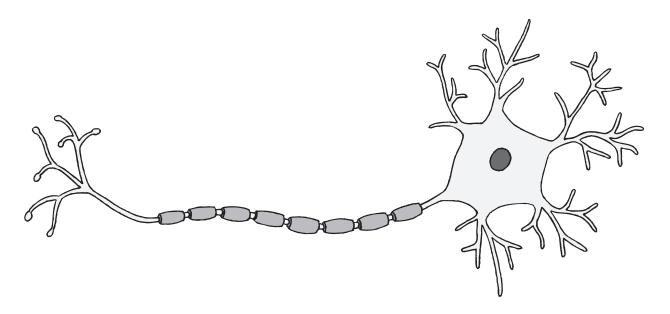
- What are the functions of the nervous system?
- How is the nerve impulse transmitted?

Introduction (page 897)

1. What is the function of the nervous system?

Neurons (pages 897–898)

- 2. How are neurons classified? _____
- **3.** What are three types of neurons?
 - a. _____
 - b. _____
 - C. _____
- **4.** Is the following sentence true or false? Sensory neurons carry impulses from the brain and the spinal cord to muscles and glands. ______
- 5. Label the following features in the drawing of a neuron: cell body, dendrites, and axon.



6. What is the function of the myelin sheath?

Na	me Date
Th	e Nerve Impulse (pages 898–899)
	The electrical charge across the cell membrane of a neuron in its resting state is called its
8.	How does a nerve impulse begin?
9.	Circle the letter of the choice that describes an action potential.
	a. Reversal of charges due to the flow of positive ions into a neuron
	b. Increase in negative ions in a neuron due to the flow of potassium out of the cell
	c. Change to a negative charge due to the flow of sodium ions out of a neuron
	d. Reversal of charges due to the flow of negative ions into a neuron
10.	The minimum level of a stimulus that is required to activate a neuron is called the
11.	How does a nerve impulse follow the all-or-nothing principle?
	e Synapse (page 900) What are neurotransmitters?
13.	Describe what happens 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.