

**SECTION** **The Human Life Cycle**  
**16-3** (pages 533-541)

*This section explains how babies develop before birth, what happens during birth, and what happens as babies develop into children. It also describes the changes that occur during adolescence.*

► **Introduction (page 533)**

1. After fertilization, the zygote develops first into an embryo and then into a(n) \_\_\_\_\_.

► **The Zygote (page 533)**

2. Is the following sentence true or false? The zygote begins to divide to make two, and then four cells before it enters the uterus.

\_\_\_\_\_

3. The growing mass of cells forms a hollow ball and attaches to the lining of the uterus, at which time the developing human is called a(n)

\_\_\_\_\_.

► **The Development of the Embryo (page 534)**

4. The membrane that surrounds the embryo and develops into a fluid-filled sac is called the \_\_\_\_\_.

5. What is the placenta? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. What is the function of the umbilical cord? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CHAPTER 16, The Endocrine System and Reproduction** *(continued)*

7. Is the following sentence true or false? Substances, such as chemicals from tobacco smoke and alcohol, can pass from the mother to the embryo. \_\_\_\_\_

► **The Development of the Fetus** (page 535)

8. Complete the table to show the development of the fetus.

The Development of the Fetus	
Time in Development	What Is Happening
Nine weeks	
From fourth to sixth month	
Final three months	

► **Birth** (pages 535–536)

9. List the three stages of the birth of a baby.

a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_

10. Circle the letter of each sentence that is true about birth.

- a. Strong muscular contractions, called labor, enlarge the cervix so that the baby fits through it.
- b. During delivery, the baby is pushed feet first out of the uterus, through the vagina, and out of the mother’s body.
- c. After delivery, the umbilical cord is clamped and cut.
- d. After labor, contractions push out the placenta and other membranes into the vagina.

11. How does the baby's body adjust to the stress of the birth process?

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► **Multiple Births (page 537)**

12. What is a multiple birth? \_\_\_\_\_

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Match the type of twins with its characteristics. Each type of twins may be used more than once.

Characteristics	Types of Twins
_____ 13. Develop from a single fertilized egg	a. identical twins
_____ 14. Develop when two eggs are released from the ovary and fertilized by two different sperm	b. fraternal twins
_____ 15. Are no more alike than any brothers or sisters	
_____ 16. Have identical inherited traits and are the same sex	

► **Infancy (pages 537–538)**

17. Is the following sentence true or false? As a baby grows, its head grows more slowly, and its body, legs, and arms grow quickly to catch up.

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18. Circle the letter of the physical skill that babies develop first.

- a. crawl      b. grasp objects      c. walk      d. hold up their heads

19. Is the following sentence true or false? Babies can communicate only by crying. \_\_\_\_\_