

**CELL REPRODUCTION****A. Understanding Ideas**

*Read the following statements. On the line to the right, write TRUE if the statement is true or FALSE if the statement is false.*

1. Sex cells are formed during mitosis. 1. \_\_\_\_\_
2. A doubled chromosome has one original and one copy. 2. \_\_\_\_\_
3. In a resting cell, nothing is happening. 3. \_\_\_\_\_
4. Meiosis may form egg cells. 4. \_\_\_\_\_
5. Sex cells have twice as many chromosomes as other cells. 5. \_\_\_\_\_
6. A cell with 6 chromosomes undergoes mitosis. Each new cell will also have 6 chromosomes. 6. \_\_\_\_\_
7. Four new cells are formed from each original in meiosis. 7. \_\_\_\_\_
8. There are two cell divisions during mitosis. 8. \_\_\_\_\_
9. During mitosis, the membrane around the nucleus fades away. 9. \_\_\_\_\_
10. Chromosomes copy themselves after the nuclear membrane fades. 10. \_\_\_\_\_
11. Growth of humans occurs mainly by mitosis. 11. \_\_\_\_\_

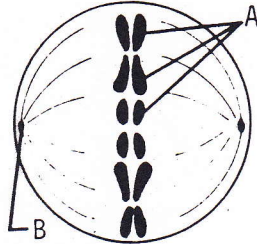
**B. Interpreting Ideas**

*Circle the word or phrase that correctly completes each of the following sentences.*

12. (Male, Female) animals form egg cells.
13. (Sperm, Both egg and sperm) cells are formed by meiosis.
14. (Sperm, Egg) cells are able to move about.
15. The sex cells of an animal have 22 chromosomes. Other body cells of this animal have (22, 44) chromosomes.
16. For fertilization to occur, the (cytoplasm, nuclei) of male and female sex cells must combine.
17. Most bacteria and protozoa reproduce by (mitosis, fertilization).
18. Only one out of four (egg, sperm) cells lives.
19. All living things start life as a (single cell, chromosome).
20. The cell formed by fertilization produces (a new organism, sex cells).

### C. Using Ideas

Answer the following questions by referring to the diagram below. It shows a cell during one stage of mitosis.



21. What are the structures labeled A? 21. \_\_\_\_\_

22. What is the structure labeled B? 22. \_\_\_\_\_

23. How many chromosomes does a normal cell of this living thing have? 23. \_\_\_\_\_

24. Describe what takes place from the step shown until mitosis is completed.

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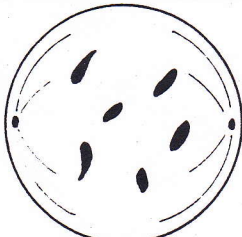


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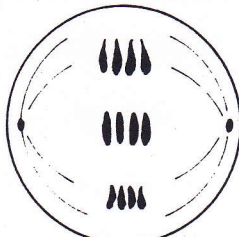


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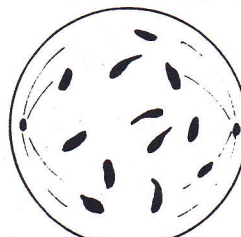
25. Suppose that a cell from the same living thing shown above undergoes meiosis. Which of the following diagrams best shows how that cell would look during the third step of meiosis? Circle the correct letter.



A.



B.



C.



D.

### D. Vocabulary Check

Complete the following sentences by writing the correct word or words in the space provided.

26. \_\_\_\_\_ are the male sex organs. 26. \_\_\_\_\_

27. The parts of the nucleus that control inherited traits are the \_\_\_\_\_. 27. \_\_\_\_\_

28. The combining of a sperm and an egg is called \_\_\_\_\_. 28. \_\_\_\_\_

29. The female sex cells are called \_\_\_\_\_. 29. \_\_\_\_\_

30. In the process of \_\_\_\_\_, one cell divides to form two identical cells. 30. \_\_\_\_\_

31. The female sex organs are the \_\_\_\_\_. 31. \_\_\_\_\_

32. The male sex cells are called \_\_\_\_\_. 32. \_\_\_\_\_