| Name | Date | Class |
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| Name | Date | Class |

CHAPTER

8

Cell Reproduction

Reteaching

The Life of a Cell

Each of the paragraphs below describes a phase in the life of a living cell as shown by the accompanying illustration. Answer the questions or fill in the blanks as indicated to form a complete story of the phases in the life of a cell.

Interphase



Most of the life of a cell is spent between cell divisions. This period is known as **interphase.** During this period, the cell grows to about double the size it was as a result of the previous cell division. Toward the end of this phase, the cell prepares for cell division. What must happen to the DNA strands in the nucleus before the cell can divide? Why?

Mitosis

The process of mitosis consists of a series of events that take place in a cell before the cell actually divides into two separate parts. Biologists distinguish four main phases within this process: **prophase**, **metaphase**, **anaphase**, and **telophase**.

| | The | e thick rodlike structures. breaks up. | |
|------------|--|---|--|
| | A network of protein cables called Eventually this network stretches from one end | d of the cell to the other. | |
| PHASE 2: _ | · · · · · · · · · · · · · · · · · · · | | |
| (AK) | During this phase, the chromosomes get arrar Describe this arrangement. | nged in a certain way. | |
| | | | |

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|-------------|--------------------------------|-----------------|---------------------------------------|
| CHAPTER 8 | Reteaching continued | | |
| PHASE 3: | | | |
| | Describe what happens to th | e chromosome | |
| | | | > |
| | | | 3 |
| | ns to the spindle fibers? | | |
| | | | |
| | | | |
| | | | |
| | As a result of the three previ | of | |
| | The spindle fib | | |
| Cytokines | is | | |
| | | | is pinched in half to form |
| two | cells. Descr | ibe what has be | en accomplished during cell |
| division | 4 | | · · · · · · · · · · · · · · · · · · · |
| | | | |
| | | | |
| How does th | e process continue? | | |
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