

Skills Worksheet

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Directed Reading

Section: Mitosis and Cytokinesis

Read each question, and write your answer in the space provided.

1 What function do spindles perform during mitosis?

2 What function do centrioles perform in animal cell mitosis?

In the space provided, write the letter of the description that best matches the term or phrase.

- | | |
|--------------------|--|
| _____ 3. prophase | a. Chromosomes move to the center of the cell and line up along the equator. |
| _____ 4. telophase | b. A nuclear envelope forms around the chromatids at each pole. |
| _____ 5. metaphase | c. Chromosomes coil up and become visible. |
| _____ 6. anaphase | d. The two chromatids move toward opposite poles as the spindle fibers attached to them shorten. |

Study the following steps of mitosis. Determine the order in which the steps take place. Write the number of each step in the space provided.

- _____ 7. prophase
_____ 8. telophase
_____ 9. metaphase
_____ 10. anaphase

Complete each statement by underlining the correct term or phrase in the brackets.

11. Cytokinesis begins [before / after] mitosis.

12. During cytokinesis in animal cells, the cell is pinched in half by [the cell wall / a belt of proteins].