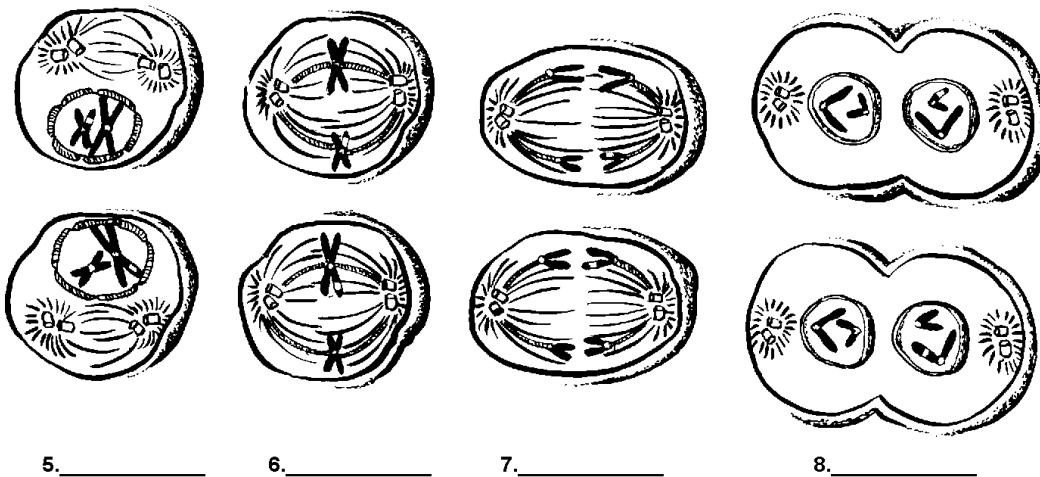
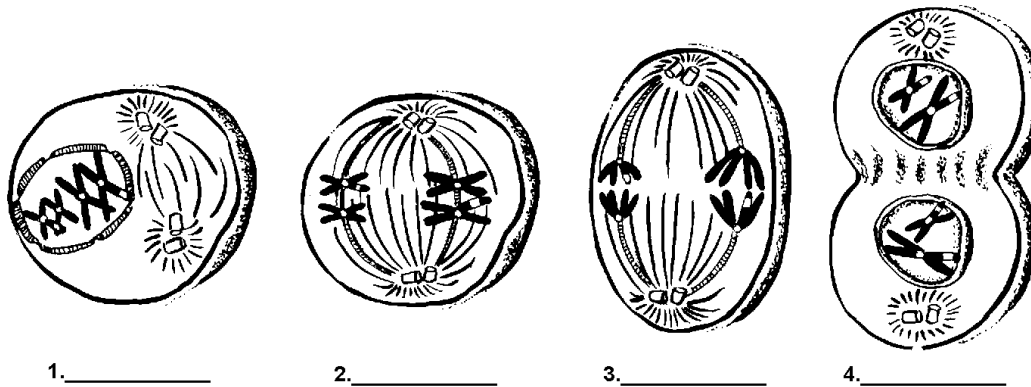


Skills Worksheet

Science Skills

SEQUENCING/ORGANIZING INFORMATION

In the space provided in the figure below, write the letter of the stage of meiosis from the list below (a–h) that matches each stage in the figure.



Stages of Meiosis

- | | |
|-----------------|---------------------------------|
| a. anaphase II | e. telophase II and cytokinesis |
| b. metaphase I | f. telophase I and cytokinesis |
| c. anaphase I | g. prophase I |
| d. metaphase II | h. prophase II |

Science Skills *continued*

In the space provided, write the letter of the description that best matches the stage of meiosis.

- | | |
|------------------------|--|
| _____ 9. metaphase I | a. A new spindle forms around the chromosomes. |
| _____ 10. prophase II | b. Chromatids remain attached at their centromeres as the spindle fibers move the homologous chromosomes to opposite poles of the cell. |
| _____ 11. telophase I | c. A nuclear envelope forms around each set of chromosomes, the spindle breaks down, and the cytoplasm divides, resulting in four haploid cells. |
| _____ 12. metaphase II | d. Chromosomes gather at the poles; the cytoplasm divides. |
| _____ 13. telophase II | e. The nuclear envelope breaks down; genetic material is exchanged through crossing-over. |
| _____ 14. anaphase II | f. Chromosomes line up at the equator. |
| _____ 15. prophase I | g. Pairs of homologous chromosomes line up at the equator. |
| _____ 16. anaphase I | h. Centromeres divide, enabling the chromatids, now called chromosomes, to move to opposite poles of the cell. |