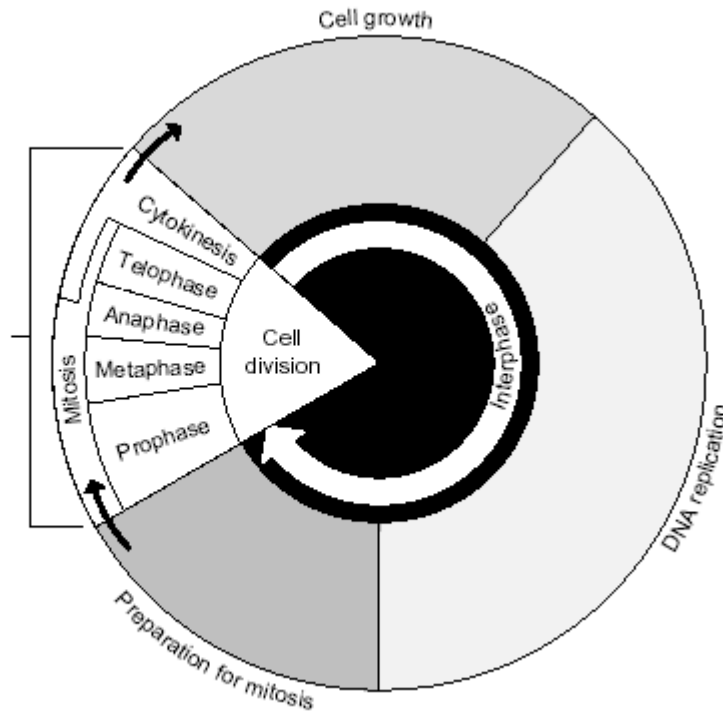


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8. Complete the diagram of the cell cycle by writing the names of each of the four phases.



Events of the Cell Cycle (page 245)

9. What happens during the G₁ phase?

10. What happens during the S phase?

11. What happens during the G₂ phase?

Mitosis (pages 246–248)

12. What are the four phases of mitosis?

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13. Match the description of the event with the phase of mitosis it is in. Each phase may be used more than once.

Event

The chromosomes move until they form two groups near the poles of the spindle.

The chromosomes become visible.

A nuclear envelope re-forms around each cluster of chromosomes.

The centrioles take up positions on opposite sides of the nucleus.

The chromosomes line up across the center of the cell.

The nucleolus becomes visible in each daughter nucleus.

Phase

a. Prophase

b. Metaphase

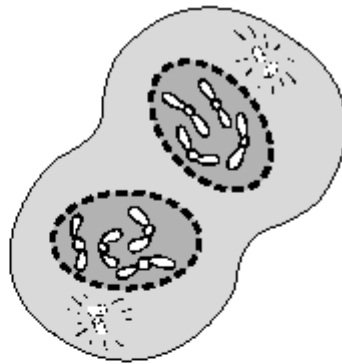
c. Anaphase

d. Telophase

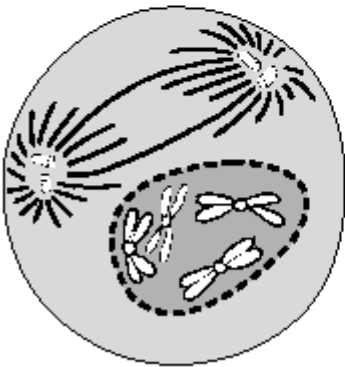
14. Identify each of the four phases of mitosis pictured below.



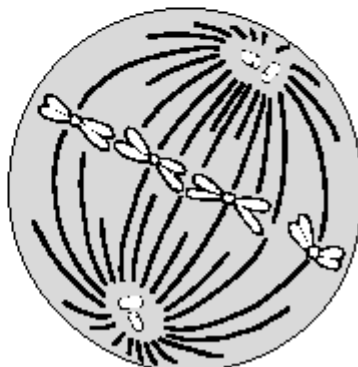
a. _____



c. _____



b. _____



d. _____

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Cytokinesis (page 248)

15. What is cytokinesis?

16. How does cytokinesis occur in most animal cells?

17. How does cytokinesis occur in plant cells?

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