Name	Class	Date	
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Section 10-2 Cell Division (pages 244-249)

C Key Concepts

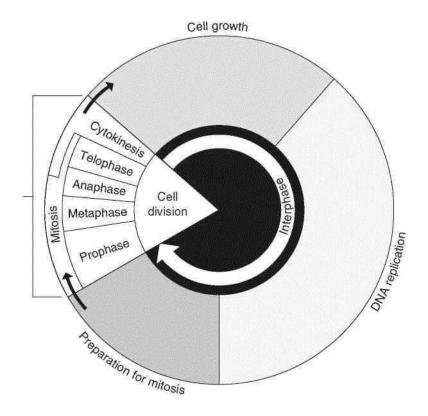
- What are the main events of the cell cycle?
- What are the four phases of mitosis?

Chromosomes (pages 244-245)

- 1. In eukaryotic cells, what are the two main stages of cell division?
- 2. When chromosomes become visible at the beginning of cell division, what does each chromosome consist of?
- 3. Each pair of chromatids is attached at an area called the_____

The Cell Cycle (page 245)

- **4.** The period of growth in between cell divisions is called_____.
- **5.** What is the cell cycle?
- **6.** Complete the diagram of the cell cycle by writing the names of each of the four phases.

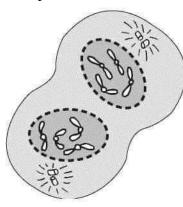


Name	Class	Date
7. The division of the	he cell nucleus during the M phase of the co	ell cycle is called
Events of the C	cell Cycle (page 245)	
8. Interphase is div	ided into what three phases?	
a	b c	
9. What happens do	uring the G ₁ phase?	
10. What happens do	uring the S phase?	
11. What happens do	uring the G ₂ phase?	
	r phases of mitosis? c	
	d	
3. What are the two	o tiny structures located in the cytoplasm no	ear the nuclear envelope at the
	dle?	
Aatch the description hase may be used m	n of the event with the phase of mitosis it is	in. Each
Event	acre many once.	Phase
15. The chromosomes move until they form two		a. Prophase
	ups near the poles of the spindle.	b. Metaphase
— 16. The chromosomes become visible. The centrioles take up positions on opposite sides of the nucleus.		c. Anaphased. Telophase
clus	ster of chromosomes. The nucleolus omes visible in each daughter nucleus.	
	e chromosomes line up across the center he cell.	

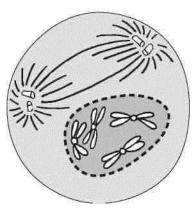
19. Identify each of the four phases of mitosis pictured below.



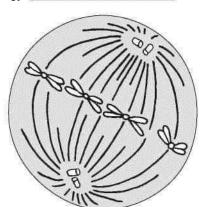
a.



c.



b._____



d. _____

Cytokinesis (page 248)

- **20.** What is cytokinesis?
- 21. How does cytokinesis occur in most animal cells?
- 22. What forms midway between the divided nucleus during cytokinesis in plant cells?

Reading Skill Practice

You may sometimes forget the meanings of the vocabulary terms that were introduced earlier in the textbook. When this happens, you can check the meanings of the terms in the Glossary which you can find at the end of the book, preceding the Index. Use the Glossary to review the meanings of all the vocabulary terms listed on page 244. Write their definitions on a separate sheet of paper.