

7. The division of the cell nucleus during the M phase of the cell cycle is called _____.

Events of the Cell Cycle (page 245)

8. Interphase is divided into what three phases?
 a. _____ b. _____ c. _____
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?
 a. _____ c. _____
 b. _____ d. _____
13. Circle the letter of the name for the two tiny structures located in the cytoplasm near the nuclear envelope at the beginning of prophase.
 a. centrioles c. centromeres
 b. spindles d. chromatids
14. What is the spindle? _____

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

Event	Phase
_____ 15. The chromosomes move until they form two groups near the poles of the spindle.	a. Prophase
_____ 16. The chromosomes become visible.	b. Metaphase
_____ 17. A nuclear envelope re-forms around each cluster of chromosomes.	c. Anaphase
_____ 18. The centrioles take up positions on opposite sides of the nucleus.	d. Telophase
_____ 19. The chromosomes line up across the center of the cell.	
_____ 20. The nucleolus becomes visible in each daughter nucleus.	