

Name:

Date:

Period:

### Cell Division

1. What are the three types of cell division?
2. What types of organisms undergo meiosis and mitosis?
3. What types of organisms undergo binary fission?
4. What type of cells does meiosis create?
5. How does mitosis affect organisms?
6. What do gametes carry?
7. Compare and contrast the three types of cell division?
8. What are the five phase of the cell cycle?
9. What is the name of the grouping of the first three phases of the cell life cycle?
10. Which phase does the cell spend most of its life in?
11. What is the name of the subphase in G1 and what does the cell do in this phase?

12. What types of cells remain in the subphase in G1 permanently?
13. What happens during the S phase of the cell cycle?
14. What happens during the G2 phase of the cell cycle?
15. How are mitosis and cytokinesis different?
16. What are the four phases of mitosis?
17. What are the four key steps in prophase?
18. What does the spindle apparatus do in prophase?
19. What are the special spots that spindle fibers connect to the centromere of the chromosome during metaphase?
20. What is the shortest event in mitosis?
21. What are the three important events of telophase?
22. When does cytokinesis begin?
23. What is the cleavage furrow? What type of cell does this feature occur?