

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Per: \_\_\_\_\_

## Cell Cycle, Cell Differentiation, & Meiosis Review

30 multiple choice questions. Use your notes and assignments to complete this review.

### Cell Cycle

1. List three problems that occur when cells increase in size.	
2. List three ways that cell division solves the problem of cell growth.	
3. What stage of the cell cycle are chromosomes visible?	
4. What occurs during G1 phase	
5. What occurs during S phase	
6. What occurs during G2 phase	
7. What are the two stages of cell division?	

### Phases of Mitosis

List the phases in order	Draw the cell	Describe what is happening

8. What is a centromere?	
9. What is the role of the spindle during mitosis?	
10. What are cyclins?	
11. What is cancer?	

**Cell Differentiation**

12. What is cell differentiation?	
13. What factor is most influential in controlling cell differentiation?	
14. Describe the role of external regulators (three statements)	

**Meiosis**

15. If an organism has a diploid number of 24, what is the haploid number?	
16. Draw a representation of crossing over.	
17. When do chromosomes form tetrads	
18. List how mitosis and meiosis are different	
19. Why are gametes haploid?	