

Cell Cycle Review

1. List 1 reason that cells divide.
2. List the 3 phases of interphase.
3. What happens in the S phase of interphase?
4. What is mitosis the division of?
5. What are the end results of mitosis?
6. Which phase of mitosis are the chromosomes lined up the middle of the cell?
7. Which phase is the cytoplasm dividing?
8. Which phase of mitosis is the nuclear membrane breaking down and chromosomes forming?
9. Which phase of mitosis is the cell pinching in or a cell plate forming?
10. Which phase of mitosis are the chromosomes splitting and moving to opposite sides of the cell?

Comparison Chart

	Mitosis	Meiosis
Main Purpose and location		
# of cells at the end?		
# of chromosomes in the end cell (start with diploid)? haploid or diploid		
# of divisions? 1 or 2		
Are end cells identical to the parent cell? Yes or No		
Contains paired homologous chromosomes? Yes or No		
Crossing over occurs? Yes or No		