Name:			
Date Started:	Date Completed:	Score:	



Learning Activity Sheet Cell Cycle and Mitosis

I. Directions. Read and understand each question carefully. Write the letter of the correct answer in the space before each number.
1. Which of the following statements about mitosis is TRUE?
A. Mitosis occurs over one round of nuclear division.
B. Mitosis produces haploid sex cells.
C. Crossing-over takes place in mitosis.
D. Independent assortment during mitosis causes genetic variation.
2. In which stage does replication of DNA happen?
A. mitosis
B. S phase
C. G ₁ phase
D. G ₂ phase
3. Where do chromosomes line along the center of the cell during cell division?
A. cell plate
B. equatorial plate
C. prophase plate
D. cleavage furrow
4. Which of the following cells is most likely not to enter the G ₀ phase?
A. muscle cell
B. nerve cell
C. red blood cell
D. cancer cell
5. Which of the following statements about mitosis is TRUE?
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B. Mitosis produces haploid sex cells.
C. Crossing-over takes place in mitosis.D. Independent assortment during mitosis causes genetic variation.
D. macpendent assortment during intosis causes genetic variation.
For numbers 6-10, refer to the following choices. Write the letter of the correct answer in the space provided before each number.
A. interphase B. mitosis C. Metaphase D. S phase E. Telophase
6. results in a diploid number of chromosomes
7. also known as the synthesis phase
8. stage of the cell cycle consisting of G ₁ , S, and G ₂ phases
9. characterized by the alignment of chromosomes at the equatorial plate
10. stage of mitosis where two new nuclei are formed in a cell