



Name: \_\_\_\_\_  
Date Started: \_\_\_\_\_ Date Completed: \_\_\_\_\_ Score: \_\_\_\_\_

### Learning Activity Sheet Meiosis

**Directions. Read and understand each question carefully. Write the letter of the correct answer in the space before each number.**

- \_\_\_\_ 1. If a cell has 40 chromosomes at the beginning of meiosis, how many chromosomes will it have at the end of meiosis?  
A. 10  
B. 20  
C. 40  
D. 80
- \_\_\_\_ 2. Which of the following statements about meiosis is NOT CORRECT?  
A. During prophase I, synapsis occurs.  
B. During prophase I, crossing-over occurs.  
C. After telophase I, two haploid daughter cells are produced.  
D. After telophase II, four diploid daughter cells are produced.
- \_\_\_\_ 3. Which of the following does not happen during prophase?  
A. coiling of chromosomes  
B. shortening of the chromosomes  
C. the disintegration of the spindle fibers  
D. the disintegration of the nuclear membrane
- \_\_\_\_ 4. Which of the following stages is not a part of meiosis?  
A. anaphase  
B. interphase  
C. metaphase  
D. prophase
- \_\_\_\_ 5. If mitosis will not be accompanied by cytokinesis, what is the most likely result?  
A. one cell without a nucleus  
B. one cell with two identical nuclei  
C. two cells, each with one nucleus  
D. two cells, each without a nucleus

For numbers 6–10, refer to the following choices. Write the letter of the correct answer in the space before each number.

A. anaphase      B. cytokinesis      C. Interkinesis      D. interphase      E. prophase

- \_\_\_\_ 6. The nuclear membrane starts to disintegrate.
- \_\_\_\_ 7. The cell increases in size, and its organelles are doubled.
- \_\_\_\_ 8. Cell divides.
- \_\_\_\_ 9. Chromosomes start to move toward opposite poles.
- \_\_\_\_ 10. It is the stage between meiosis I and meiosis II, where no DNA replication occurs.