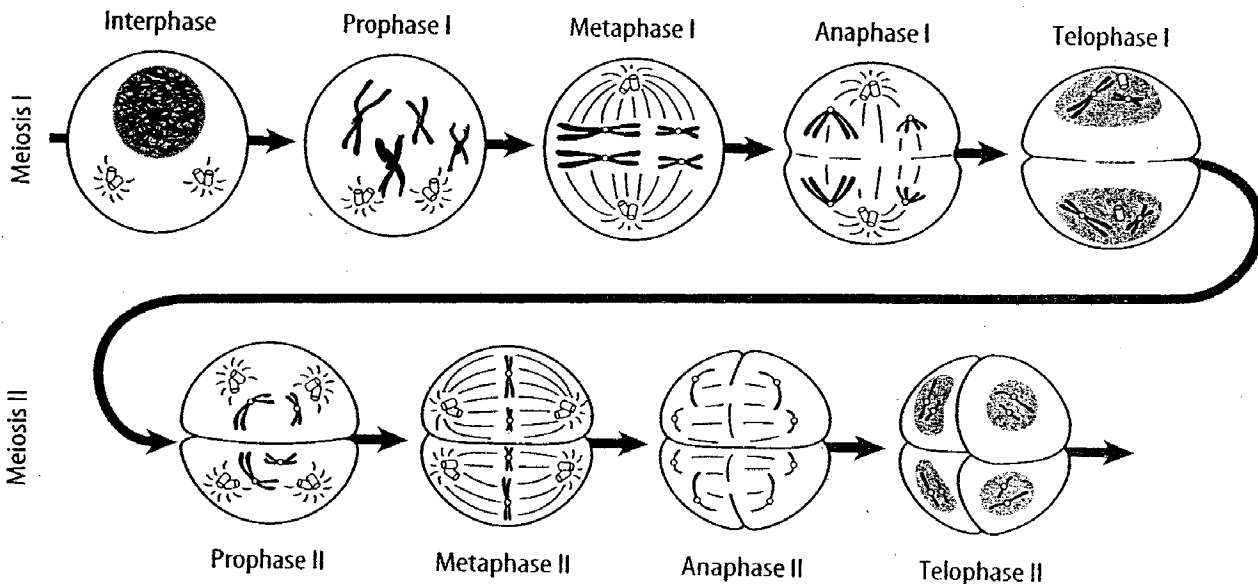


Directed Reading for  
Content Mastery

**Section 1 ■ Cell Division and Mitosis**

**Section 2 ■ Sexual Reproduction and Meiosis**

**Directions:** Study the diagram. Then answer the following questions.



- Mitosis begins with one cell. How many cells are formed by the end of mitosis? \_\_\_\_\_
- What happens to the chromosomes of a cell in order for mitosis to begin? During what part of the cell cycle does this occur?  
\_\_\_\_\_
- ~~Meiosis I is the same as what other reproductive process?~~  
\_\_\_\_\_
- Meiosis I begins with one cell. How many cells are formed by the end of meiosis II?  
\_\_\_\_\_
- At the end of meiosis II, each of the haploid sex cells has only half the number of chromosomes as the original diploid cell. Why is this important?  
\_\_\_\_\_

Diploid =  $2n$   
two of each chromosome

Haploid =  $1n$  or  $n$   
One of each chromosome