

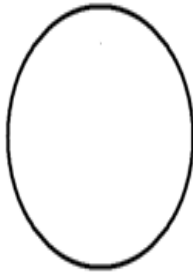
- I. . Define the following meiosis related terms; synapsis, tetrad, and crossing over.
- II. Do a drawing indicating how crossing over occurs in meiosis. Label all the tetrad and crossing over in your drawing in a sequence of several drawings.
- III. Complete this chart indicating the major differences between mitosis and meiosis.

	Mitosis	Meiosis
Number of Cells formed in each process		
Genetic Variation or NOT		
Chromosome numbers in cells formed compared to the original parent cell		
Type of Cell where process occurs		

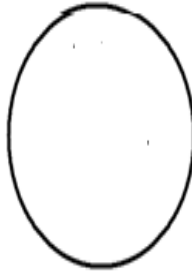
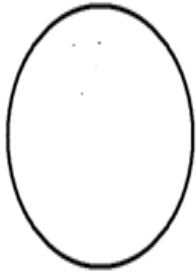
- IV. Explain the significance of the process of crossing over to living things.
- V. . Complete the incomplete drawing showing the chromosome numbers and positions in a meiotic division. State the number of chromosomes (2n or n) beside each drawing.



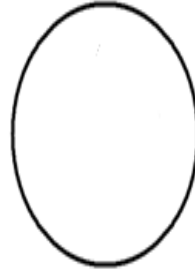
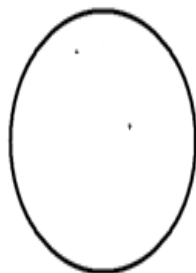
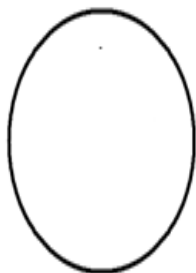
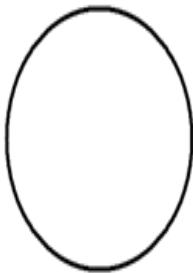
Interphase I



metaphase I



**end of first meiotic
division**



**cells formed at end of
second meiotic division
(meiosis completion)**