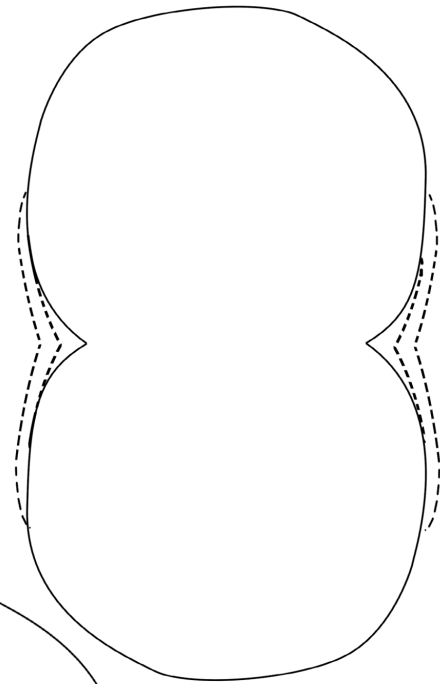


LAB EXERCISE 4.1 (continued)

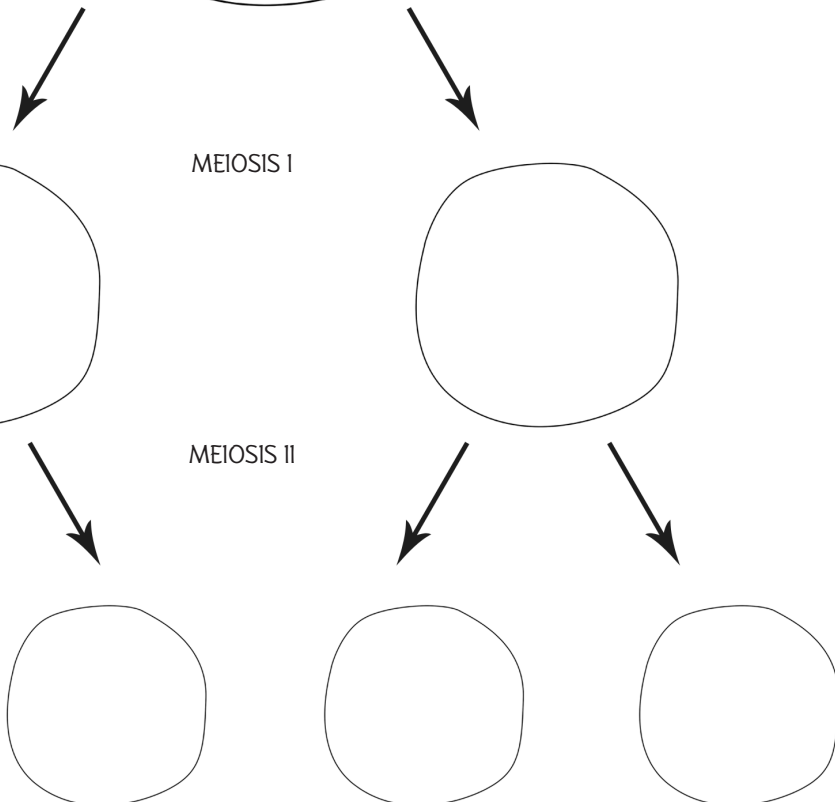
Telophase:

- Draw the chromosomes at each pole, surrounded by their newly formed nuclear membranes.
- In this example, how many chromosomes are in each nucleus?
- If this were a human, how many chromosomes would be in each nucleus?
- Note the cell walls at the sides of the cell pinching in. This is accomplished by a ring of elastic proteins around the cell, constricting much the way a rubber band tightening around a balloon would appear. What is the term for this process of separating the one cell into two?



- You will re-create the process of meiosis in an individual whose diploid chromosome number is six. From the sample of chromosomes given in Appendix A, choose and cut out the appropriate ones to fill in the stages of meiosis. All of the sample chromosomes should be used; none should be left over.

Look at the chromosomes in Appendix A. What do the two different colors of chromosome represent?



Would this example be more representative of the meiotic process in males or in females? Why?