Name_____Date _____

Meiosis Worksheet

Identifying Processes On the lines provided, **order** the different stages of meiosis I THROUGH meiosis II, including interphase in the proper sequence.

1. _____ homologous chromosome line up in the center of the cell
2. _____ spindle fibers pull homologous pairs to ends of the cell
3. _____ 4 haploid (N) daughter cells form
4. _____ cells undergo a round of DNA replication
5. _____ sister chromatids separate from each other
6. _____ 2 haploid (N) daughter cells form
7. _____ spindle fibers attach to the homologous chromosome pairs
8. _____ individual chromatids move to each end of the cell
9. _____ crossing-over (if any) occurs

Short Answer

10. Compare the number and type of cells that result from meiosis vs. mitosis.

11. How do the genetic contents of cells resulting from mitosis and meiosis differ?

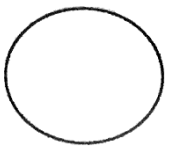
12. Comparing and Contrasting Describe a similarity and a difference between meiosis I and meiosis II.

13 Applying Concepts If a diploid cell containing 28 chromosomes undergoes meiosis, how many chromosomes will each daughter cell have?

14 Compare and Contrast: How are mitosis and meiosis similar and different?

Draw and describe the stages of meiosis starting with 2 chromosomes.

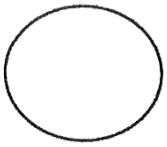
Prophase I



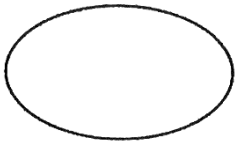
* synapsis, tetrads formed

*Crossing over

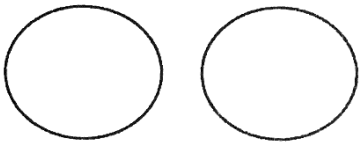
Metaphase I



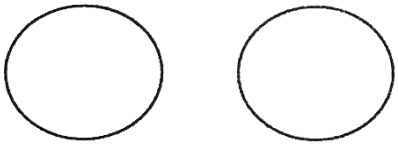
Anaphase I



Telophase I

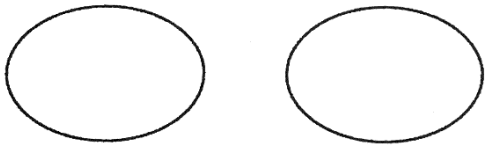


Prophase II

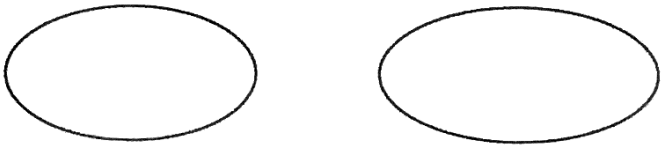


* NO duplication

Metaphase II



Anaphase II



Telophase I