

Name _____

AP Biology

TEXT: *Biology, Campbell and Reece*

7th Edition

Chapter 13 – Meiosis and Sexual Life Cycles
Guided Reading

1. Compare and contrast asexual and sexual reproduction.

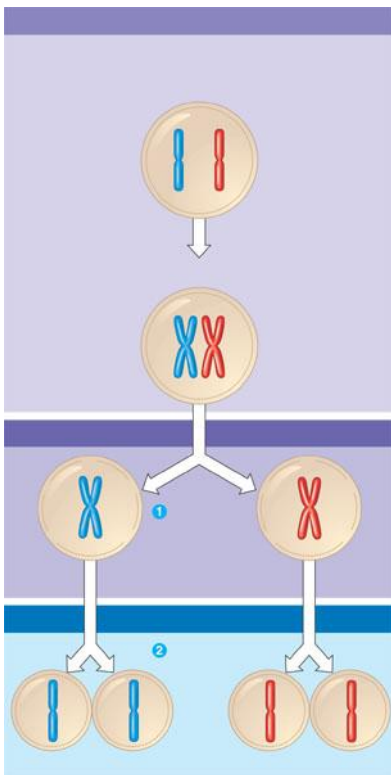
2. Define the following terms:
 - a. Life cycle
 - b. Somatic cell
 - c. Karyotype
 - d. Homologous chromosomes
 - e. Sex chromosomes
 - f. Autosomes
 - g. Diploid cell
 - h. Haploid cell
 - i. Fertilization
 - j. Zygote
 - k. Meiosis

3. How are karyotypes prepared?

4. Describe the three different types of life cycles.

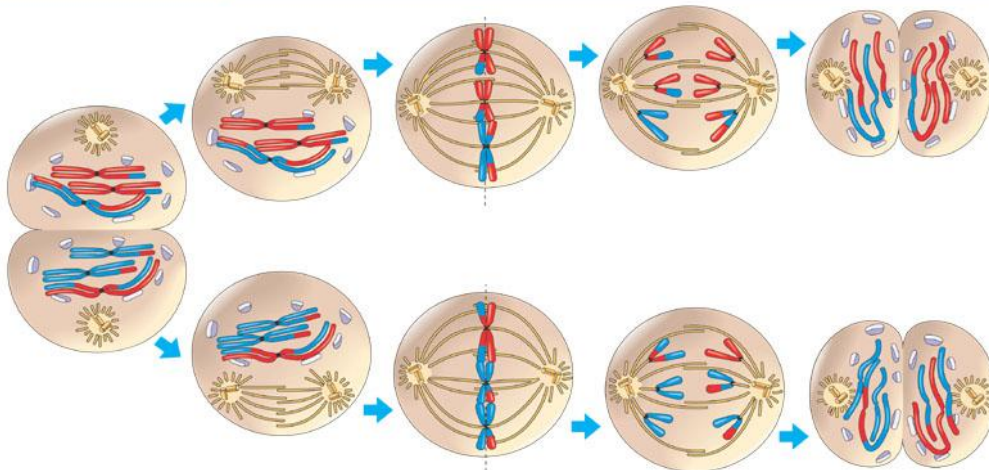
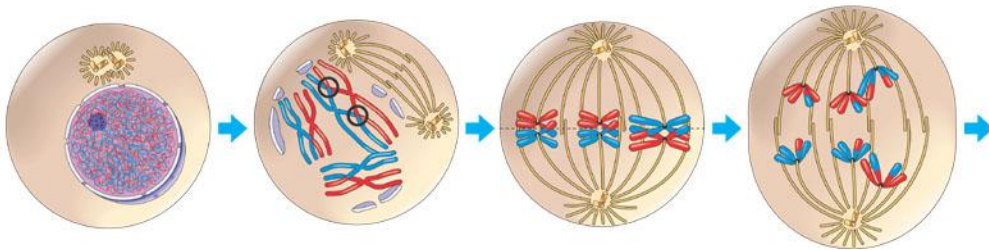
5. What exactly is meant by alternation of generations?

6. Label and provide a description of the diagram below outlining an overview of meiosis.



7. What are the two broad goals of meiosis?

8. Label the following diagrams of meiosis.



9. Summarize the comparison of mitosis and meiosis.

10. Describe in detail the three sources of genetic variation in meiosis.

a.

b.

c.