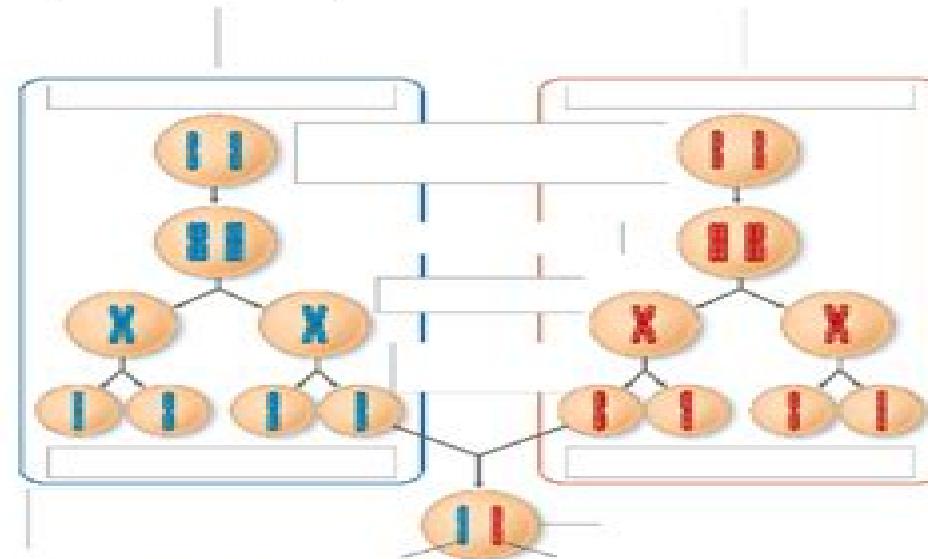


## Chapter 13: Meiosis and Sexual Life Cycles

- 13.1 Compare and contrast asexual and sexual reproduction with respect to inheritance of chromosomes by offspring.
- 13.2 Explain the alternation of fertilization and meiosis in different types of sexual life cycles, using the terms *haploid*, *diploid* and *zygote*.
- 13.3 Describe the stages of meiosis, explaining how the process reduces the number of chromosome sets.
- 13.4 Identify the ways in which sexual life cycles generate genetic variation that contributes to evolution.

Meiosis accounts for much of the genetic diversity in sexually reproducing organisms, so focus on how this process results in offspring that are different from their parents. Be careful to note that although both mitosis and meiosis share many common features, the resultant daughter cells are very different. Keep this in mind throughout this chapter.

**Study Tip:** Figure 13.1 presents the “big picture” of inheritance from two parents in sexual fertilization. Work through it slowly by labeling the indicated boxes. When you complete this chapter, come back to this figure and review it again.



See page 254 in your text for the labeled figure.

# Chapter 13 Guided Reading Ap Bio Answers

**A Loxley**

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