

Study Guide**KEY CONCEPT**

Independent assortment and crossing over during meiosis result in genetic diversity.

VOCABULARY

crossing over

genetic linkage

MAIN IDEA: Sexual reproduction creates unique gene combinations.

1. What are two ways that sexual reproduction helps create and maintain genetic diversity?

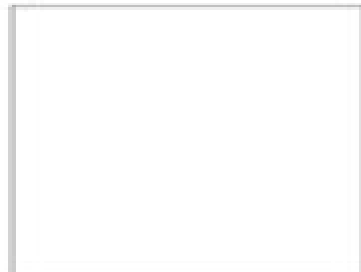
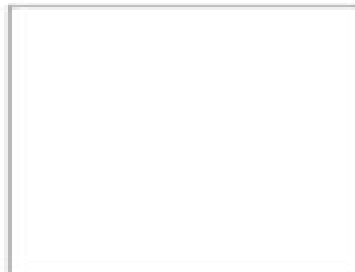
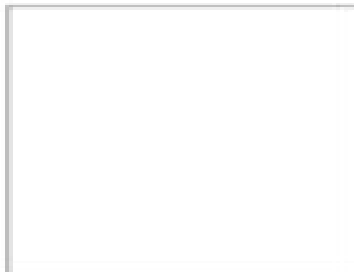
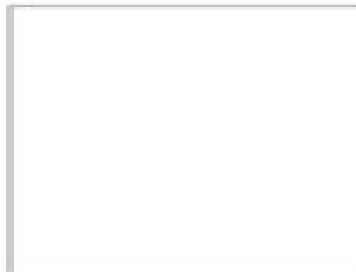
2. Which does sexual reproduction create, new alleles or new combinations of alleles?

3. How is the production of unique genetic combinations an advantage to organisms and species?

MAIN IDEA: Crossing over during meiosis increases genetic diversity.

4. Are chromosomes in a duplicated or an unduplicated state when crossing over occurs?

Use sketches to illustrate how crossing over contributes to genetic diversity. Use Figure 6.20 for reference. **1.** Draw a cell with four chromosomes in the first box. Make one pair of chromosomes large and the other pair small. Color in one large chromosome and one small chromosome. Leave the other two chromosomes white. **2.** In the next box, draw the cell in prophase I. Have each pair of homologous chromosomes line up together—large with large, small with small. **3.** In the third box, show crossing over between each pair of homologous chromosomes. **4.** In the last box, show what the chromosomes look like as a result of crossing over. You will use this sketch in the next exercise.



Section 66 Meiosis And Genetic Variation Study Guide

Answer Key

AW Rasmussen



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