

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.

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Answer Key

Royal Microscopical Society (Great Britain)



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Klug, Michael R. Cummings, 2005 An exciting and dynamic way to communicate basic math concepts to your young learner The Complete Book of Math for first and second graders covers topics such as number recognition counting comparing patterns place value time and money graphing fractions and more The Brighter Child R Book of series offers instruction activities and information about specific topics and subject areas With full color illustrations children will master important educational concepts while having fun The user friendly format offers an engaging way for children to acquire knowledge and hone skills essential to learning success Each book also includes a complete answer key and easy to follow instructions

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reproductive organisms As a consequence of recombination and segregation of maternal and paternal sets of chromosomes it represents the largest natural source of genetic variability The field of meiosis research is expanding rapidly with significant progress resulting from the use of suitable model systems as well as from the identification and characterization of proteins many of them meiosis specific which play a key role during meiotic events This volume provides the reader with a series of authoritative review articles summarizing some of the most recent advances in the field of meiosis research Most of the more commonly used model systems are investigated taking the comparative aspects into account Written by leading experts in the field the book is a valuable reference for researchers and graduate students in genetics cell and developmental biology reproductive biology and andrology *Journal of the Royal Microscopical Society* Royal Microscopical Society (Great Britain),1931 **Agrindex** ,1992 Paperbacks in Print ,1971

Embracing the Tune of Term: An Emotional Symphony within **Section 66 Meiosis And Genetic Variation Study Guide Answer Key**

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