

Skills Worksheet

Vocabulary and Section Summary

Meiosis

VOCABULARY

In your own words, write a definition of the following terms in the space provided.

1. homologous chromosomes

2. meiosis

3. sex chromosome

4. pedigree

SECTION SUMMARY

Read the following section summary.

- In mitosis, chromosomes are copied once, and then the nucleus divides once. In meiosis, chromosomes are copied once, and then the nucleus divides twice.
- The process of meiosis produces sex cells, which have half the number of chromosomes. These two halves combine during reproduction.
- In humans, females have two X chromosomes. So, each egg contains one X chromosome. Males have both an X and a Y chromosome. So, each sperm cell contains either an X or a Y chromosome.
- Sex-linked disorders occur in males more often than in females. Color blindness and hemophilia are examples of sex-linked disorders.
- A pedigree is a diagram used to trace a trait through many generations of a family.