

SECTION 8-1 REVIEW**CHROMOSOMES**

VOCABULARY REVIEW Distinguish between the terms in each of the following pairs of terms.

1. histone, nonhistone protein _____

2. chromatid, centromere _____

3. sex chromosome, autosome _____

4. diploid cell, haploid cell _____

MULTIPLE CHOICE Write the correct letter in the blank.

- _____ 1. During cell division, the DNA in a eukaryotic cell is tightly packed and coiled into structures called
a. centromeres. b. histones. c. haploids. d. chromosomes.
- _____ 2. Between cell divisions, the DNA in a eukaryotic cell is uncoiled and spread out; in this form it is called
a. chromatid. b. chromatin. c. histone. d. nonhistone.
- _____ 3. The chromosomes of most prokaryotes consist of proteins and
a. a single circular DNA molecule.
b. a single linear DNA molecule.
c. a pair of linear DNA molecules joined in the center.
d. a pair of homologous, circular DNA molecules.
- _____ 4. Humans have 46 chromosomes in all cells except sperm and egg cells. How many of these chromosomes are autosomes?
a. 2 b. 23 c. 44 d. 46
- _____ 5. If an organism has a diploid, or $2n$, number of 16, how many chromosomes do its sperm cells or eggs cells contain?
a. 8 b. 16 c. 32 d. 64

Section 8 1 Review Chromosomes Answer Guide

Lingjun Ying



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Study Guide for Psychology Don H. Hockenbury, 2009-01-23

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Table of Contents Section 8 1 Review Chromosomes Answer Guide

1. Understanding the eBook Section 8 1 Review Chromosomes Answer Guide
 - The Rise of Digital Reading Section 8 1 Review Chromosomes Answer Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Section 8 1 Review Chromosomes Answer Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Section 8 1 Review Chromosomes Answer Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Section 8 1 Review Chromosomes Answer Guide
 - Personalized Recommendations
 - Section 8 1 Review Chromosomes Answer Guide User Reviews and Ratings
 - Section 8 1 Review Chromosomes Answer Guide and Bestseller Lists
5. Accessing Section 8 1 Review Chromosomes Answer Guide Free and Paid eBooks
 - Section 8 1 Review Chromosomes Answer Guide Public Domain eBooks
 - Section 8 1 Review Chromosomes Answer Guide eBook Subscription Services
 - Section 8 1 Review Chromosomes Answer Guide Budget-Friendly Options
6. Navigating Section 8 1 Review Chromosomes Answer Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Section 8 1 Review Chromosomes Answer Guide Compatibility with Devices
 - Section 8 1 Review Chromosomes Answer Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Section 8 1 Review Chromosomes Answer Guide
 - Highlighting and Note-Taking Section 8 1 Review Chromosomes Answer Guide
 - Interactive Elements Section 8 1 Review Chromosomes Answer Guide
8. Staying Engaged with Section 8 1 Review Chromosomes Answer Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Section 8 1 Review Chromosomes Answer Guide
- 9. Balancing eBooks and Physical Books Section 8 1 Review Chromosomes Answer Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section 8 1 Review Chromosomes Answer Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Section 8 1 Review Chromosomes Answer Guide
 - Setting Reading Goals Section 8 1 Review Chromosomes Answer Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Section 8 1 Review Chromosomes Answer Guide
 - Fact-Checking eBook Content of Section 8 1 Review Chromosomes Answer Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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