

Name: **ANSWER KEY**

Date : _____ Period: _____

Genetics and Heredity Unit Study Guide/Practice Test 2013-2014

Section 1 Cell Division

What are the two types of cell division that we have discussed in this unit?

1. **Mitosis**

2. **Meiosis**

Complete the following chart:

Type of cell division	Mitosis	Meiosis
Cell starts out as a body (somatic) or sex cell?	Somatic cell	Somatic cell
Function of this process	To create more somatic cells. Growth and repair of body cells, tissues, and organs.	Production of gametes (egg and sperm)
Initial cell is haploid or diploid?	Diploid	Diploid
Nucleus divides once or twice?	Once	Twice
Number of daughter cells at end of cell division?	2	4
End product is a body (somatic) cell or gamete?	Somatic cells	Gametes
End product is diploid or haploid	Diploid	Haploid
If there are 3 pairs of homologous chromosomes in the cell at the beginning of cell division, how many chromosomes will be in each cell at the end of cell division?	6	3

1. A human body cell contains **23** pairs of **homologous** chromosomes or a total of **46** chromosomes.

****Note: Homologous chromosomes are pairs of chromosomes in which one chromosome comes from the mother and one comes from the father. Homologous chromosomes are similar but not identical. Each carries the same genes in the same order, but the alleles for each trait may not be the same.**

2. What occurs during mitotic cell divisions:

During mitosis and cell division, the chromosomes duplicate and then separate. At the end of mitosis, a new nucleus forms around each new set of chromosomes and then the cell divides in a process called cytokinesis. This creates two new identical daughter cells.

Genetics Unit 2 Study Guide Answer Key

Patricia A. Williams



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Table of Contents Genetics Unit 2 Study Guide Answer Key

1. Understanding the eBook Genetics Unit 2 Study Guide Answer Key
 - The Rise of Digital Reading Genetics Unit 2 Study Guide Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetics Unit 2 Study Guide Answer Key
 - 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 Genetics Unit 2 Study Guide Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Unit 2 Study Guide Answer Key
 - Personalized Recommendations
 - Genetics Unit 2 Study Guide Answer Key User Reviews and Ratings
 - Genetics Unit 2 Study Guide Answer Key and Bestseller Lists
5. Accessing Genetics Unit 2 Study Guide Answer Key Free and Paid eBooks

- Genetics Unit 2 Study Guide Answer Key Public Domain eBooks
 - Genetics Unit 2 Study Guide Answer Key eBook Subscription Services
 - Genetics Unit 2 Study Guide Answer Key Budget-Friendly Options
6. Navigating Genetics Unit 2 Study Guide Answer Key eBook Formats
- ePub, PDF, MOBI, and More
 - Genetics Unit 2 Study Guide Answer Key Compatibility with Devices
 - Genetics Unit 2 Study Guide Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Genetics Unit 2 Study Guide Answer Key
 - Highlighting and Note-Taking Genetics Unit 2 Study Guide Answer Key
 - Interactive Elements Genetics Unit 2 Study Guide Answer Key
8. Staying Engaged with Genetics Unit 2 Study Guide Answer Key
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetics Unit 2 Study Guide Answer Key
9. Balancing eBooks and Physical Books Genetics Unit 2 Study Guide Answer Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetics Unit 2 Study Guide Answer Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Genetics Unit 2 Study Guide Answer Key
- Setting Reading Goals Genetics Unit 2 Study Guide Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Genetics Unit 2 Study Guide Answer Key
- Fact-Checking eBook Content of Genetics Unit 2 Study Guide Answer Key
 - 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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