

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	<u>Mitosis</u>	<u>Meiosis</u>
Cell starts out as a body (somatic) or sex cell?	<u>Somatic cell</u>	<u>Somatic cell</u>
Function of this process	<u>To create more somatic cells. Growth and repair of body cells, tissues, and organs.</u>	<u>Production of gametes (egg and sperm)</u>
Initial cell is haploid or diploid?	<u>Diploid</u>	<u>Diploid</u>
Nucleus divides once or twice?	<u>Once</u>	<u>Twice</u>
Number of daughter cells at end of cell division?	<u>2</u>	<u>4</u>
End product is a body (somatic) cell or gamete?	<u>Somatic cells</u>	<u>Gametes</u>
End product is diploid or haploid?	<u>Diploid</u>	<u>Haploid</u>
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?	<u>6</u>	<u>3</u>

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 division:

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.

Applied Genetics Study Guide Answers

David G. Myers, Richard O. Straub



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as well as rejoinders Also included is an update of the language development guide with the phonetic pronunciation of appropriate glossary words *Catalogue* University of Louisville,1925 **Microbiology** Gerard J. Tortora,1995-04

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Table of Contents Applied Genetics Study Guide Answers

1. Understanding the eBook Applied Genetics Study Guide Answers
 - The Rise of Digital Reading Applied Genetics Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Applied Genetics Study Guide Answers
 - 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 Applied Genetics Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Applied Genetics Study Guide Answers
 - Personalized Recommendations
 - Applied Genetics Study Guide Answers User Reviews and Ratings

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