

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.

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M Mark



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Whispering the Strategies of Language: An Emotional Quest through **Genetics Unit 2 Study Guide Answer Key**

In a digitally-driven world wherever monitors reign great and instant conversation drowns out the subtleties of language, the profound strategies and emotional subtleties hidden within words usually go unheard. Yet, situated within the pages of **Genetics Unit 2 Study Guide Answer Key** a interesting literary value pulsating with natural thoughts, lies an exceptional quest waiting to be undertaken. Composed by a skilled wordsmith, this enchanting opus attracts readers on an introspective trip, softly unraveling the veiled truths and profound affect resonating within the very fabric of each word. Within the mental depths of this poignant evaluation, we will embark upon a honest exploration of the book is core styles, dissect their captivating writing model, and succumb to the strong resonance it evokes heavy within the recesses of readers hearts.

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