

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

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 And Heredity Study Guide Answer Key

**Robert S. Feldman**



## **Genetics And Heredity Study Guide Answer Key:**

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**Study Guide** Johnson,Judith Stewart,2000-12 Designed specifically for the one semester human biology course Contains traditional chapter review and self testing activities Resources for Teaching Middle School Science Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science

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