

Name: _____ Date: _____

Chapter 10 Lesson 4 Questions (see page 387-389)

Directions: Use complete sentences to answer the following questions

1. Who was Walter Sutton? _____
2. What was Sutton trying to understand? _____

3. What aspect of sex cell formation was he studying? _____

4. What was his hypothesis? _____

5. How does the number of chromosomes in grasshopper sex cells compare to the number in body cells? _____

6. How many chromosomes does the fertilized egg receive from each parent? _____

7. How are genes passed from parents to offspring? _____

8. What is the chromosome theory of inheritance? _____

9. If human body cells have 46 chromosomes, how many chromosomes do human sex cells have? _____

10. An individual may be homozygous for one trait and heterozygous for another. Use upper and lower case letters to write a genotype for the individual whose chromosome pair is depicted on figure 2: _____

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