GENETICS UNIT TEST



Test Contents: 10 Questions (Short Answer) Critical Thinking Required

Test Your Students Knowledge of:

- Mitosis
- Meiosis
- · Pedigree Analysis
- · Codominance
- · Incomplete Dominance
- · Punnett Squares
- · Mendel's Laws of Genetics
- · Monohybrid Cross
- · Dihybrid Cross

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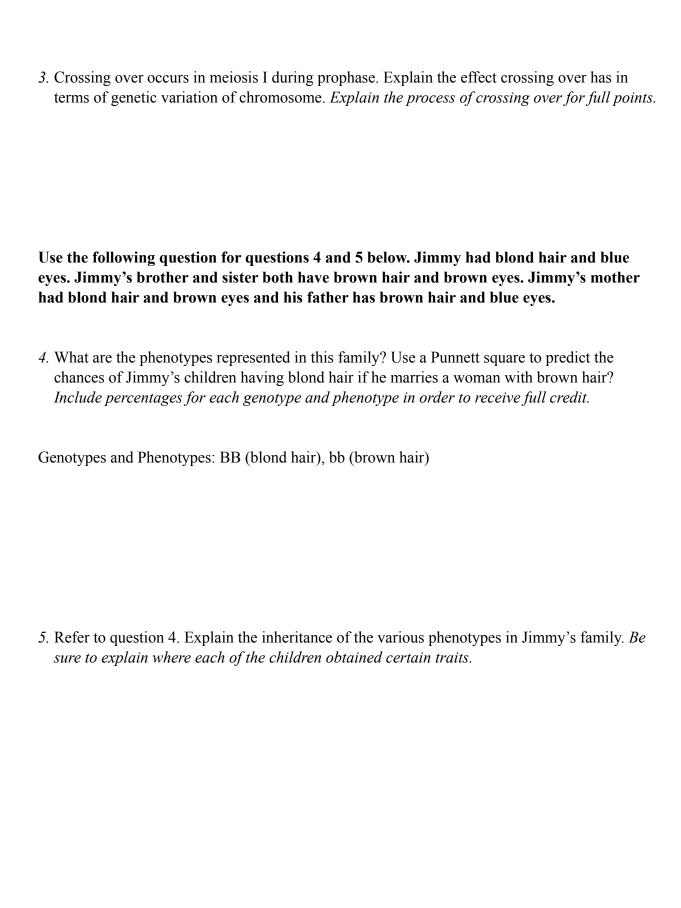
Genetics Unit Test Genetics Unit

Instructions

Answer the following questions in complete sentences. Read the instructions completely and explain all of the processes mentioned in each question.

1. Suzie the Cell does not like the way her cell functions because she has problems with her chromosome number. She is interested in going through some processes to improve her image. She wants to reduce her chromosome number to half her original number, which is 60 chromosomes. What process would she undergo to make this happen? Explain the process to receive full points.

2. Suzie the Cell has met her soul mate who totally loves her for who she is. She is very interested in getting married and having children with him in the immediate future. In order to do this, they would like to become one unified cell that combines their chromosomes together. Both cells have 60 chromosomes. What process would you recommend for her unify herself with her one true love? How many chromosomes would the cell have in the end and what kind of cell would they both create? Explain the process to receive full points.



These instructions apply to questions 6 and 7. Examine the pedigree below and determine the type of trait represented. Does the pedigree represent a dominant, recessive or sexlinked trait? Explain your answers to receive full points

6.

7.

