

## Genetics Study Guide

### Short Answer

1. In Mendel's experiments, what proportion of the plants in the  $F_2$  generation had a trait that had been absent in the  $F_1$  generation?  
**One fourth**
2. Factors that control traits are called **genes**
3. Scientists call an organism that has two different alleles for a trait a **hybrid**
4. What does the notation  $TT$  mean to geneticists?  
**It means the organism is homozygous dominant**
5. What does the notation  $Tt$  mean to geneticists?  
**It means the organism is heterozygous-one dominant and one recessive allele**
6. What is probability?  
**A number that describes how likely it is that an event will occur**
7. What is the probability of producing a tall pea plant from a genetic cross between two hybrid tall pea plants?  
**75%**
8. What does a Punnett square show?  
**The possible outcome of the genetic cross**
9. If a homozygous black guinea pig ( $BB$ ) is crossed with a homozygous white guinea pig ( $bb$ ), what is the probability that an offspring will have black fur?  
**100%**
10. An organism's physical appearance is its **phenotype**
11. A purebred chicken with white feathers is crossed with a purebred chicken that has black feathers. Each of their offspring has both black and white feathers. Why does this happen?  
**Because of codominance, which means both alleles are dominant alleles**
12. What is a mutation?  
**Changes in the gene or chromosomes**
13. Which term refers to physical characteristics that are studied in genetics?  
**traits**
14. The different forms of a gene are called **alleles**
15. An organism that has two identical alleles for a trait is **homozygous**
16. A heterozygous organism has **Two different alleles for a single trait.**

# Genetics 2 Unit Study Guide Answer Key

**A Gutmann**



## **Genetics 2 Unit Study Guide Answer Key:**

## **Genetics 2 Unit Study Guide Answer Key** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Genetics 2 Unit Study Guide Answer Key**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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