

## Meiosis and Genetics Review

1. What are offspring that result from crosses between parents with different traits called? **hybrid**
2. What are the chemical factors that determine traits? **genes**
3. What did Gregor Mendel conclude about how traits are inherited? **Inherited through the passing of factors from parent to offspring.**
4. What does the principle of dominance? **Some alleles are dominant and others are recessive.**
5. Why were all offspring tall when Mendel crossed true-breeding tall plants with true-breeding short plants? **The allele for tall plants is dominant.**
6. When you flip a coin, what is the probability that it will come up tails? **1/2**
7. Organisms that have two identical alleles for a particular trait are said to be **homozygous**.
8. In a cross between Tt x TT, what is the phenotypes of the offspring? **All are expected to be tall.**
9. What principle states that during gamete formation genes for different traits separate without influencing each other's inheritance? **Principle of Independent Assortment**
10. Situations in which one allele for a gene is not completely dominant over another allele for that gene are called **incomplete dominance**.
11. A cross of a woman with type A blood and a man with type B blood produces a child with type AB blood. This type of inheritance is known as **codominance**.
12. If an organism's diploid number is 12, its haploid number is **6**.
13. How many alleles are in each gamete and where are they inherited from? **one allele for each gene.**
14. Gametes are produced by the process of **meiosis**.
15. What is shown in the figure below? **Crossing-over**



# Extending Genetics Study Guide Answers

**David Freifelder, Leon A. Snyder**



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