

Genetics: The Science of Heredity QUIZ STUDY GUIDE

VOCABULARY:

1. A **GENE** is a "factor" that controls a trait.
2. An **ALLELE** is a different form of a gene.
3. A **HYBRID OR HETEROZYGOUS** organism has two different alleles for a trait.
4. A **DOMINANT** allele is one whose trait always shows up in the organism; "stronger"
5. A **RECESSIVE** allele is one that is hidden or masked; "weaker"
6. **GENETICS** is the study of heredity.
7. **HEREDITY** is the passing of genetic traits from parent to offspring.
8. A chart that describes all the ways alleles can combine in a genetic cross is called a(n) **PUNNETT SQUARE**.
9. An organism's **PHENOTYPE** refers to its **physical appearance** or visible traits.
10. An organism's **GENOTYPE** refers to its **genetic make-up** or the alleles it has.
11. What is an organism called for having two identical alleles for a trait? **HOMOZYGOUS (hh OR HH)**
12. What is an organism called for having two different alleles for a trait? **HETEROZYGOUS (Hh)**

PUNNETT SQUARE PRACTICE:

Use with #13-14: Let's say that in cats, the gene for the length of the tail has two alleles. The dominant allele (T) codes for long tails and the recessive allele (t) codes for short tails.

13. What is the probability of producing offspring that have short tails from a cross of two long tailed cats, one that is *homozygous dominant (TT)* and one that is *heterozygous (Tt)*? Show your work on the Punnett square.

100% LONG TAILS

0% SHORT TAILS

| | | |
|---|----|----|
| | T | T |
| T | TT | TT |
| t | Tt | Tt |

14. If one parent cat is *heterozygous long-tailed (Tt)* and the other is *short tailed (tt)*, what is the probability that the offspring will have short tails?

50% LONG TAILS

50% SHORT TAILS

| | | |
|---|----|----|
| | T | t |
| t | Tt | tt |
| t | Tt | tt |

15. In unicorns, two horns (H) is dominant and one horn (h) is recessive. Complete the Punnett square to show the cross of *two hybrid (Hh)* unicorns. **Summarize** the genotypes and phenotypes of the possible offspring.

POSSIBLE GENOTYPES: HH, Hh, AND hh

POSSIBLE PHENOTYPES: TWO HORNS AND ONE HORN

SUMMARY: Based on the information from the Punnett Square we can predict that 75% of the offspring would have two horns because they all have a dominant allele. We can also predict that 25% would have one horn because they have two recessive alleles.

| | | |
|---|----|----|
| | H | h |
| H | HH | Hh |
| h | Hh | hh |

Genetics The Science Of Heredity Answer Key

RD Boyd



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