

Practice Problems Incomplete Dominance And Codominance Answer Key

Name _____ Date _____ Pd _____

Incomplete Dominance and Co-Dominance Practice Problems



Incomplete Dominance

1. Coat color in mice is incompletely dominant. Yellow and white-colored mice are homozygous, while cream-colored mice are heterozygous. If two cream-colored mice mate, what phenotypic ratio can we expect of their offspring? Show the Punnett Square.

	Y	W
Y	YY	YW
W	YW	WW

1:2:1

2. In radishes, red and white are pure-breeding colors, while hybrids are purple. If a red radish is crossed with a white radish, what will be the phenotype of the F_2 generation (assuming the F_1 generation self-pollinates)? Show the Punnett Square.

	R	R
W	RW	RW
W	RW	RW

25% Red

50% Purple

25% White

3. In snapdragons, flower color is controlled by incomplete dominance. The two alleles are red (R) and white (W). The heterozygous genotype is expressed as pink.
- What is the phenotype of a plant with the genotype RR? Red
 - What is the phenotype of a plant with the genotype WW? White
 - What is the phenotype of a plant with the genotype RW? Pink

4. A pink-flowered plant is crossed with a white-flowered plant. Show the Punnett Square. What is the probability of producing a pink-flowered plant? 50 %

	R	W
W	RW	WW
W	RW	WW

5. What cross will produce the most pink-flowered plants? Show a Punnett square to support your answer.

RR * WW
100% are RW (pink flowered)

	R	R
W	RW	RW
W	RW	RW

6. In Andalusian fowls, black individuals (B) and white individuals (W) are homozygous. A homozygous black bird is crossed with a homozygous white bird. The offspring are all bluish-gray. Show the cross as well as the genotypes and phenotypes of the parents and offspring.

	B	B
W	BW	BW
W	BW	BW

Parents: BB (black) * WW (white)
Offspring: BW (gray)

7. What are the genotypic and phenotypic ratios if a black individual is crossed with a bluish-gray individual? Show the Punnett Square.

	B	B
B	BB	BB
W	BW	BW

Genotype: 2:2:0
Phenotype: 2:2:0

Practice Problems: Incomplete Dominance and Codominance Answer Key

Introduction

Genetics is a fascinating field that explores how traits are inherited from one generation to the next. Two important concepts in genetics are incomplete dominance and codominance. These concepts help explain the diversity of traits observed in living organisms. In this article, we will delve into practice problems involving incomplete dominance and codominance, providing an answer key to help you understand these genetic phenomena better.

What is Incomplete Dominance?

Incomplete dominance occurs when the phenotype of the heterozygous genotype is an intermediate blend of the phenotypes of the homozygous genotypes. In other words, neither allele is completely dominant over the other, resulting in a third, distinct phenotype.

Example Problem: Snapdragon Flowers

In snapdragons, flower color is controlled by incomplete dominance. The two alleles are red (R) and white (R'). The heterozygous genotype (RR') results in pink flowers.

****Problem:**** What are the possible phenotypes and their ratios when a pink-flowered plant (RR') is crossed with a white-flowered plant (R'R')?

****Answer:****

- Genotypes: RR', R'R'
- Phenotypes: Pink, White
- Ratio: 1 Pink : 1 White

What is Codominance?

Codominance occurs when both alleles in a heterozygous genotype are fully expressed, resulting in offspring with a phenotype that shows both parental traits side by side.

Example Problem: Chicken Feather Color

In some chickens, the gene for feather color is controlled by codominance. The allele for black feathers is B, and the allele for white feathers is W. The heterozygous genotype (BW) results in chickens with both black and white feathers, known as erminette.

****Problem:**** If two erminette chickens (BW) are crossed, what are the possible phenotypes and their ratios?

****Answer:****

- Genotypes: BB, BW, WW
- Phenotypes: Black, Erminette, White
- Ratio: 1 Black : 2 Erminette : 1 White

Practice Problems and Answer Key

Problem 1: Incomplete Dominance in Mice

In mice, coat color is controlled by incomplete dominance. Yellow (Y) and white (Y') are the two

alleles. The heterozygous genotype (YY') results in cream-colored mice.

****Problem:**** If two cream-colored mice (YY') are crossed, what are the possible phenotypes and their ratios?

****Answer:****

- Genotypes: YY, YY', Y'Y'
- Phenotypes: Yellow, Cream, White
- Ratio: 1 Yellow : 2 Cream : 1 White

Problem 2: Codominance in Cows

In cows, coat color is controlled by codominance. The allele for red coat color is R, and the allele for white coat color is W. The heterozygous genotype (RW) results in roan cows, which have both red and white hairs.

****Problem:**** If a roan cow (RW) is crossed with a white cow (WW), what are the possible phenotypes and their ratios?

****Answer:****

- Genotypes: RW, WW
- Phenotypes: Roan, White
- Ratio: 1 Roan : 1 White

Problem 3: Incomplete Dominance in Flowers

In four o'clock flowers, flower color is controlled by incomplete dominance. The alleles are red (R) and white (W). The heterozygous genotype (RW) results in pink flowers.

****Problem:**** What are the possible phenotypes and their ratios when a red-flowered plant (RR) is crossed with a pink-flowered plant (RW)?

****Answer:****

- Genotypes: RR, RW
- Phenotypes: Red, Pink
- Ratio: 1 Red : 1 Pink

Problem 4: Codominance in Blood Types

In humans, the ABO blood group system is an example of codominance. The alleles for blood type A (IA) and blood type B (IB) are codominant, while the allele for blood type O (i) is recessive.

****Problem:**** If a person with blood type AB (IAIB) has children with a person with blood type O (ii), what are the possible blood types and their ratios?

****Answer:****

- Genotypes: IAi, IBi
- Phenotypes: A, B
- Ratio: 1 A : 1 B

Conclusion

Understanding incomplete dominance and codominance is crucial for grasping the complexities of genetic inheritance. These practice problems and their answers provide a solid foundation for mastering these concepts. By working through these problems, students can gain a deeper appreciation for the diversity of traits in living organisms and the genetic mechanisms that drive this diversity.

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CliffsStudySolver: Biology Max Rechtman, 2007-05-03 The CliffsStudySolver workbooks combine 20 percent review material with 80 percent practice problems (and the answers!) to help make your lessons stick. CliffsStudySolver Biology is for students who want to reinforce their knowledge with a learn-by-doing approach. Inside, you'll get the practice you need to master biology with problem-solving tools such as Clear, concise reviews of every topic Practice problems in every chapter—with explanations and solutions A diagnostic pretest to assess your current skills A full-length exam that adapts to your skill level Easy-to-understand tables and graphs, clear diagrams, and straightforward language can help you gain a solid foundation in biology and open the doors to more advanced knowledge. This workbook begins with the basics: the scientific method, microscopes and microscope measurements, the major life functions, cell structure, classification of biodiversity, and a chemistry review. You'll then dive into topics such as Plant biology: Structure and function of plants, leaves, stems, roots; photosynthesis Human biology: Nutrition and digestion, circulation, respiration, excretion, locomotion, regulation Animal biology: Animal-like protists; phyla Cnidaria, Annelida, and Arthropoda Reproduction: Organisms, plants, and human Mendelian Genetics; Patterns of Inheritance; Modern Genetics Evolution: Fossils, comparative anatomy and biochemistry, The Hardy-Weinberg Law Ecology: Abiotic and biotic factors, energy flow, material cycles, biomes, environmental protection Practice makes perfect—and whether you're taking lessons or teaching yourself, CliffsStudySolver guides can help you make the grade. Author Max Rechtman taught high school biology in the New York City public school system for 34 years before retiring in 2003. He was a teacher mentor and holds a New York State certificate in school administration and supervision.

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book is intended for senior undergraduate and graduate students taking courses in molecular evolution/phylogenetic reconstruction. It will also be a useful supplement for students taking wider courses in evolution, as well as a valuable resource for professionals. First student textbook of phylogenetic reconstruction which uses the tree as a central metaphor of evolution. Chapter summaries and annotated suggestions for further reading. Worked examples facilitate understanding of some of the more complex issues. Emphasis on clarity and accessibility.

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Terence A. Brown, 2007 The VitalBook e-book version of Genomes 3 is only available in the US and Canada at the present time. To purchase or rent please visit <http://store.vitalsource.com/show/9780815341383> Covering molecular genetics from the basics through to genome expression and molecular phylogenetics, Genomes 3 is the latest edition of this pioneering textbook. Updated to incorporate the recent major advances, Genomes 3 is an invaluable companion for any undergraduate throughout their studies in molecular genetics. Genomes 3 builds on the achievements of the previous two editions by putting genomes, rather than genes, at the centre of molecular genetics teaching. Recognizing that molecular biology research was being driven more by genome sequencing and functional analysis than by research into genes, this approach has gathered momentum in recent years.

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quantitative, chemically rigorous approach to analyzing problems in molecular biology. The text is unique and clearly superior to any currently available.--R.L. Bernstein, San Francisco State University. The greatest strength is the author's ability to challenge the student to become involved and get below the surface.--Clifford Brunk, UCLA

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