

Non-Mendelian Genetics - Practice

1. In plants known as "four o'clocks", the allele for the dominant red-flower color is **incompletely dominant** over the allele for white-flowers. A gardener allows several heterozygous pink-flowered four o'clocks to self pollinate and collects 200 seeds.

Draw a Punnett square for the cross. Identify the flower color phenotypes and theoretical percentage.

Phenotype	Percentages
• <u>red</u>	• <u>25%</u>
• <u>pink</u>	• <u>50%</u>
• <u>white</u>	• <u>25%</u>

	C^R	C^W
C^R	$C^R C^R$	$C^R C^W$
C^W	$C^R C^W$	$C^W C^W$

2. Skin color in humans is determined by a polygenic inheritance system, possibly involving as many as 9 genes. For simplicity let's consider the influence of 2 genes: A and B, where the dominant allele darkens skin color. Suppose a woman who is $AABb$ mates with a man who is $Aabb$.

- A. List all of the possible genotypes of the gametes that could be produced by each the parents. Identify the percent ratios.

Genotype: <u>$AABb$</u>	Ratio: <u>$4/16$</u>
Genotype: <u>$AABb$</u>	Ratio: <u>$4/16$</u>
Genotype: <u>$AaBb$</u>	Ratio: <u>$4/16$</u>
Genotype: <u>$Aabb$</u>	Ratio: <u>$4/16$</u>

		Ab	Ab	ab	ab	\rightarrow
\uparrow	$AABb$ $AaBb$					
\downarrow	AB	$AABb$	$AABb$	$AaBb$	$AaBb$	
	Ab	$AAbb$	$AAbb$	$Aabb$	$Aabb$	
	aB	$AaBb$	$AaBb$	$AaBb$	$AaBb$	
	ab	$Aabb$	$Aabb$	$Aabb$	$Aabb$	

* 2 genes \rightarrow dihybrid cross *

3. In rabbits, white coat color (C^W) and black coat color (C^B) are **codominant**, and both of these alleles are dominant over albino (c); heterozygotes ($C^W C^B$) are spotted.

Draw a Punnett Square that shows the genotypes and phenotypes of the offspring from a heterozygous black-coated rabbit and a homozygous white-coated rabbit?

	C^B	C
C^W	$C^B C^W$	$C^W c$
C^W	$C^B C^W$	$C^W c$

50% spotted $C^B C^W$ (codominance)
50% white $C^W c$ (hybrid)

Mendelian Genetics Packet With Answers

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Table of Contents Mendelian Genetics Packet With Answers

1. Understanding the eBook Mendelian Genetics Packet With Answers
 - The Rise of Digital Reading Mendelian Genetics Packet With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mendelian Genetics Packet With Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mendelian Genetics Packet With Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mendelian Genetics Packet With Answers
 - Personalized Recommendations
 - Mendelian Genetics Packet With Answers User Reviews and Ratings
 - Mendelian Genetics Packet With Answers and Bestseller Lists
5. Accessing Mendelian Genetics Packet With Answers Free and Paid eBooks
 - Mendelian Genetics Packet With Answers Public Domain eBooks
 - Mendelian Genetics Packet With Answers eBook Subscription Services
 - Mendelian Genetics Packet With Answers Budget-Friendly Options
6. Navigating Mendelian Genetics Packet With Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Mendelian Genetics Packet With Answers Compatibility with Devices
 - Mendelian Genetics Packet With Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mendelian Genetics Packet With Answers
 - Highlighting and Note-Taking Mendelian Genetics Packet With Answers
 - Interactive Elements Mendelian Genetics Packet With Answers
8. Staying Engaged with Mendelian Genetics Packet With Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Mendelian Genetics Packet With Answers
- 9. Balancing eBooks and Physical Books Mendelian Genetics Packet With Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mendelian Genetics Packet With Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mendelian Genetics Packet With Answers
 - Setting Reading Goals Mendelian Genetics Packet With Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mendelian Genetics Packet With Answers
 - Fact-Checking eBook Content of Mendelian Genetics Packet With Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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