

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.

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

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

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: $AABb$ Ratio: $4/14$
 Genotype: $AABb$ Ratio: $4/16$
 Genotype: $AaBb$ Ratio: $4/16$
 Genotype: $Aabb$ Ratio: $4/16$

		Ab	Ab	ab	ab
$AABb$ $Aabb$	AB	$AABb$	$AABb$	$AaBb$	$AaBb$
$♀$	Ab	$AAbb$	$AAbb$	$Aabb$	$Aabb$
	AB	$AABb$	$AABb$	$AaBb$	$AaBb$
	Ab	$AAbb$	$AAbb$	$Aabb$	$Aabb$

2 genes → 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 Homework Answer Key

Léo Pomar



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40 Inquiry Exercises for the College Biology Lab A. Daniel Johnson, 2009 Drawing from the author s own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of the 16 topics

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The American Biology Teacher ,2003 Biology ,1999 Congressional Record United States. Congress,1958 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 *MENDELIAN GENETICS* NARAYAN

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Breeding and the Mendelian Discovery ,1912

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