

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)

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