

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)

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Lauren Gardner



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