

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

**Xiang Xie**



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