

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)

Chapter 10 Section 2 Mendelian Genetics Study Answer Key

K Payea



Chapter 10 Section 2 Mendelian Genetics Study Answer Key:

Chapter 10 Section 2 Mendelian Genetics Study Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. Chapter 10 Section 2 Mendelian Genetics Study Answer Key : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Chapter 10 Section 2 Mendelian Genetics Study Answer Key : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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