

BIOLOGY 100
SOLUTIONS TO PROBLEMS
MENDELIAN GENETICS

1. In summer squash, white fruit color is dominant over yellow. If a plant homozygous for white fruit color is crossed with a plant homozygous for yellow fruit color, what will the F1 generation be like? If these F1 plants are self fertilized and 213 offspring are recovered, approximately how many will be white, and how many of these might be expected to breed true?

Parental phenotypes	White	x	Yellow	
Parental genotypes	WW		ww	(W = dominant allele; w = recessive allele)
Parental gametes	(W)		(w)	
F1 generation phenotype	White			
F1 generation genotype	Ww			
F1 generation gametes (each individual)	(W), (w)			
F2 phenotypes and genotypes:				
	(F1 gametes):	(W)	(w)	
	(W)	White WW	White Ww	
	(w)	White Ww	Yellow ww	

From the above Punnett square, 3/4 of the offspring will be white. Out of a total of 213 offspring, we expect 160 to be white (3/4 x 213).

The above Punnett square also tells us that 1/4 of the offspring will be true breeding white (i.e., homozygous dominant). We expect 53 offspring to be white true-breeders (1/4 x 213).

2. A white-fruited squash plant when crossed with a yellow-fruited plant produces offspring about half of which are white and half of which are yellow in fruit color. What are the genotypes of the parent plants?

In problems that ask for the genotype of parents, follow these simple steps: a) write down the phenotypes of each parent; b) based on these phenotypes, write down what you know about their phenotypes (remember that an expressed recessive trait means that an individual is homozygous recessive); c) look for recessive offspring; they are homozygous recessive and must have inherited a recessive allele from each parent; d) fill in the missing genotype information based on the above evidence.

Phenotypes of parents	White	x	Yellow
Initial determination of parental genotypes	W?		ww

Mendelian Genetics Problems And Solutions

Lauren Gardner



Mendelian Genetics Problems And Solutions:

The Top Books of the Year Mendelian Genetics Problems And Solutions 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 bestselling books, exploring the fascinating narratives that have charmed audiences this year. Mendelian Genetics Problems And Solutions : Colleen Hoovers "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 prevail. Uncover the Best : Taylor Jenkins Reids "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. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular 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 Papan, 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 a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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