

Monohybrid Mice!



Directions: Solve each problem showing your work in the Punnett square. For each cross, give the genotypes and phenotypes of the offspring and the probability of getting each. List these in the table seen by each problem. Answer the questions that accompany each problem. What you need to know about the mice: In laboratory mice, gray coat color (G) is dominant over albino coat color. (g). I. Cross a female Gg with a male gg. 1. What is the probability of getting gray offspring? 2. What is the probability of getting albino offspring? 3. How many possible genotypes are there among the offspring? 4. How many possible phenotypes are there among the offspring? 5. What is the probability of getting heterozygous offspring? Phenotypes Genotypes 6. What is the probability of getting homozygous offspring? 7. What color is the female? 8. What color is the male? II. Cross a homozygous gray female with a heterozygous male. 1. What is the probability of getting gray offspring? 2. What is the probability of getting albino offspring? ____3. How many possible genotypes are there among the offspring? 4. How many possible phenotypes are there among the offspring? _5. What is the probability of getting heterozygous offspring? 6. What is the probability of getting homozygous offspring? 7. What is the genotype of the female? Genotypes Phenotypes 8. What color is the male?



Justine .	I. Cross a gray female, whose father was albino, with a heteroxygous male.						
					Genotypes	Phenotypes	
	1.	What is the prob	ability of getting gra	w offspring?			
-	2.		ability of getting all				
				nere among the offsprin	φ?		
				there among the offspri	-		
-		5. What is the probability of getting heterozygous offspring?					
		6. What is the probability of getting homozygous offspring?					
		7. What is the genotype of the female? How do you know?					
		•	otype of the male? I	-			
	was albin			s gray, with a gray Genotypes	1		
`	was albin	0.		Genotypes	Phenotyp	es	
	Q.					•	
ļ							
4	150 M						
	1	What is the meal	ashility of autics —			,	
	1. What is the probability of getting gray offspring? 2. What is the probability of getting albino offspring? 3. How many possible genotypes are there among the offspring? 4. How many possible phenotypes are there among the offspring? 5. What is the probability of getting heterozygous offspring?						
Harran							
						N. 2.	
_						£5	
			_			2.7/	
branco				omozygous offspring?		th	
	/	. What was the go	enotype of the father	of the albino female?		TA T	