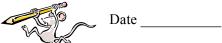


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Monohybrid Mice!



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

ross 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?	Genotype	es Ph
6. What is the probability of getting homozygous offspring?		
7. What color is the female?		
8. What color is the male? Cross a homozygous gray female with a heterozygous male.		
ross a homozygous gray female with a heterozygous male.		
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 gray offspring? 2. What is the probability of getting albino offspring?		
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? 2. What is the probability of getting albino offspring? 3. How many possible genotypes are there among the offspring?		
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?		
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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?		Pher

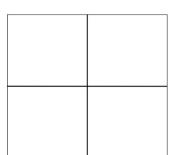
III. Cross a gray female, whose father was albino, with a heterozygous male.

		Genotyp	es Phenotype
1.	What is the proba	bility of getting gray offspring?	Is.
2.	What is the proba	bility of getting albino offspring?	
3.	How many possib	ole genotypes are there among the offspring?	
4.	How many possib	ble phenotypes are there among the offspring?	
5.	What is the proba	bility of getting heterozygous offspring?	
6.	What is the proba	bility of getting homozygous offspring?	
	-	ype of the female? How do you know?	
	What is the genot	ype of the male? How do you know?	

IV. Cross an albino female, whose father was gray, with a gray male, whose mother was albino.

Genotypes | Phenotypes





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 was the genotype of the father of the albino female?

