

Monohybrid Genetics Problems Answer Key

ANSWER KEY

1) A green pea plant (Gg) is crossed with a yellow pea plant (gg).

	G	g	
g	Gg	gg	Genotypes: 50% Gg 50% gg Phenotypes: 50% Green 50% Yellow
g	Gg	gg	

2) A tall pea plant (TT) is crossed with a tall pea plant (Tt).

	T	T	
T	TT	TT	Genotypes: 50% TT 50% Tt Phenotypes: 100% Tall
t	Tt	Tt	

Monohybrid Genetics Problems: Answer Key and Complete Guide

Are you struggling with monohybrid genetics problems? Do Punnett squares leave you feeling more puzzled than enlightened? You're not alone! Many students find Mendelian genetics challenging, but mastering these foundational concepts is crucial for understanding more advanced biological principles. This comprehensive guide provides not only a detailed explanation of monohybrid crosses but also a helpful answer key to common practice problems. We'll break down the concepts, walk you through the steps, and equip you with the tools to confidently tackle any monohybrid genetics problem.

Understanding Monohybrid Crosses: The Basics

A monohybrid cross focuses on the inheritance of a single trait. This trait is determined by a pair of alleles – one inherited from each parent. Alleles are different versions of a gene. For example, in pea plants, the gene for flower color has two alleles: one for purple flowers (often represented as "P") and one for white flowers ("p").

Dominant and Recessive Alleles

In many cases, one allele is dominant over the other. This means that if an organism inherits one dominant allele and one recessive allele, the dominant trait will be expressed. Only if an organism

inherits two recessive alleles will the recessive trait be observed.

Homozygous: An organism with two identical alleles (e.g., PP or pp) is homozygous.

Heterozygous: An organism with two different alleles (e.g., Pp) is heterozygous.

Genotype: The genetic makeup of an organism (e.g., PP, Pp, pp).

Phenotype: The observable physical trait (e.g., purple flowers, white flowers).

Solving Monohybrid Genetics Problems: A Step-by-Step Guide

Let's tackle a sample problem to illustrate the process.

Problem: In pea plants, purple flowers (P) are dominant to white flowers (p). If you cross a homozygous purple-flowered plant (PP) with a homozygous white-flowered plant (pp), what are the genotypes and phenotypes of the offspring (F1 generation)?

Step 1: Set up the Punnett Square:

A Punnett square is a visual tool to predict the possible genotypes of offspring.

P	P
p	Pp
p	Pp

Step 2: Determine the Genotypes:

From the Punnett square, we see that all offspring in the F1 generation have the genotype Pp.

Step 3: Determine the Phenotypes:

Since P (purple) is dominant to p (white), all offspring will have purple flowers, even though they are heterozygous.

Step 4: Calculate Probabilities:

In this case, the probability of an offspring having purple flowers is 100%.

More Complex Monohybrid Crosses: Heterozygous x Heterozygous

Now let's consider a slightly more complex scenario.

Problem: Two heterozygous purple-flowered pea plants (Pp) are crossed. What are the genotypes

and phenotypes of their offspring?

Step 1: Set up the Punnett Square:

	P	p
P	PP	Pp
p	Pp	pp

Step 2: Determine Genotypes and Phenotypes:

PP: Homozygous dominant, purple flowers (25% probability)

Pp: Heterozygous, purple flowers (50% probability)

pp: Homozygous recessive, white flowers (25% probability)

Therefore, 75% of the offspring will have purple flowers, and 25% will have white flowers.

Monohybrid Genetics Problems: Answer Key Examples

Here are a few more problems with their solutions, showcasing different aspects of monohybrid crosses:

Problem 1: In humans, brown eyes (B) are dominant to blue eyes (b). A homozygous brown-eyed individual (BB) marries a blue-eyed individual (bb). What is the probability of their child having blue eyes? Answer: 0%

Problem 2: A heterozygous tall pea plant (Tt) is crossed with a short pea plant (tt). What percentage of the offspring will be tall? (T = tall, t = short). Answer: 50%

Problem 3: In fruit flies, red eyes (R) are dominant to white eyes (r). If two heterozygous red-eyed flies (Rr) are crossed, what is the genotypic ratio of their offspring? Answer: 1 RR: 2 Rr: 1 rr

Beyond the Basics: Understanding the Significance

Mastering monohybrid crosses is foundational for understanding more complex genetic concepts like dihybrid crosses, sex-linked inheritance, and genetic diseases. By understanding the principles of Mendelian inheritance, we can better predict the inheritance patterns of traits within populations and individuals.

Conclusion

This guide provides a clear and concise explanation of monohybrid genetics, along with a comprehensive approach to solving related problems. By understanding the concepts of dominant and recessive alleles, Punnett squares, and genotype/phenotype relationships, you'll be well-equipped to tackle any monohybrid genetics challenge. Remember to practice regularly; the more problems you solve, the more confident and proficient you'll become.

FAQs

1. What is the difference between a genotype and a phenotype? A genotype refers to the genetic makeup of an organism (the alleles it possesses), while the phenotype is the observable physical characteristic resulting from that genotype.
2. Can a recessive trait be expressed in a heterozygous individual? No, a recessive trait requires two copies of the recessive allele to be expressed. In a heterozygous individual, the dominant allele will mask the recessive allele.
3. What is a test cross, and why is it useful? A test cross involves crossing an individual with an unknown genotype with a homozygous recessive individual. This helps determine the unknown genotype by observing the phenotypes of the offspring.
4. Are all traits determined by simple dominant/recessive relationships? No, many traits are influenced by multiple genes (polygenic inheritance) or show incomplete dominance or codominance, where neither allele is completely dominant.
5. Where can I find more practice problems? Many textbooks, online resources (like Khan Academy), and educational websites offer extensive practice problems on monohybrid genetics. Look for resources specifically targeting Mendelian genetics.

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