

Punnett Square Answer Key



Name _____ Date _____

Concept Covered: The Dihybrid Cross 2

In tomatoes, red fruit (R) is dominant to yellow fruit (r). Round fruit (B) is dominant to pear-shaped fruit (b). Cross a heterozygous red, round tomato plant with another plant of the same genotype.

Rr Bb 1. What is the genotype of the first parent?

Rr Bb 2. What is the genotype of the second parent?

3. Fill in the Punnett square below.

	<u>RB</u>	<u>Rb</u>	<u>rB</u>	<u>rb</u>
<u>RB</u>	RR BB	RR Bb	Rr BB	Rr Bb
<u>Rb</u>	RR Bb	RR bb	Rr Bb	Rr bb
<u>rB</u>	Rr BB	Rr Bb	rr BB	rr Bb
<u>rb</u>	Rr Bb	Rr bb	rr Bb	rr bb

4/16 4. What is the probability of getting heterozygous red and round fruit in the offspring?

1/16 5. What is the probability of getting homozygous red and round fruit in the offspring?

12/16 6. What fraction of the offspring should be red?

4/16 7. What fraction of the offspring should be yellow?

12/16 8. What fraction of the offspring should be round?

4/16 9. What fraction of the offspring should be pear-shaped?

3/16 10. What is the probability of getting offspring that have red and pear-shaped fruit?

3/16 11. What is the probability of getting offspring that have yellow fruit that is round?

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Punnett Square Answer Key: Mastering Mendelian Genetics

Are you staring at a Punnett square, feeling utterly bewildered? Don't worry! Understanding genetics doesn't have to be a daunting task. This comprehensive guide provides you with not just a Punnett square answer key, but also a clear understanding of how to construct and interpret these invaluable tools for predicting genetic outcomes. We'll walk you through various examples, explain the underlying principles of Mendelian genetics, and equip you with the knowledge to confidently tackle any Punnett square problem. Let's unlock the secrets of inheritance together!

Understanding the Basics of Punnett Squares

Before diving into specific examples and answer keys, let's solidify our understanding of the fundamental concepts. A Punnett square is a visual representation of the possible genotypes resulting from a genetic cross. It's named after Reginald C. Punnett, a British geneticist who developed this method. The square helps predict the probability of offspring inheriting specific traits from their parents.

Key Terms:

Allele: Different versions of a gene (e.g., one allele for brown eyes, another for blue eyes).

Genotype: The genetic makeup of an organism (e.g., BB, Bb, bb).

Phenotype: The observable physical characteristics determined by the genotype (e.g., brown eyes, blue eyes).

Homozygous: Having two identical alleles for a particular gene (e.g., BB or bb).

Heterozygous: Having two different alleles for a particular gene (e.g., Bb).

Dominant Allele: An allele that masks the expression of a recessive allele when present (represented by a capital letter).

Recessive Allele: An allele whose expression is masked by a dominant allele (represented by a lowercase letter).

Example 1: Monohybrid Cross (Punnett Square Answer Key Included)

Let's consider a simple monohybrid cross involving flower color. Let's say "B" represents the dominant allele for purple flowers, and "b" represents the recessive allele for white flowers. We'll cross two heterozygous plants (Bb x Bb).

B	b	
B	BB	Bb
b	Bb	bb

Punnett Square Answer Key:

Genotype Ratio: 1 BB : 2 Bb : 1 bb

Phenotype Ratio: 3 Purple Flowers : 1 White Flower

This shows that there's a 75% chance of the offspring having purple flowers and a 25% chance of having white flowers.

Example 2: Dihybrid Cross (Punnett Square Answer Key Included)

Dihybrid crosses involve two traits. Let's cross two plants heterozygous for both flower color (B=purple, b=white) and plant height (T=tall, t=short). The cross is (BbTt x BbTt). This results in a 4x4 Punnett square (which we won't fully display here due to space constraints, but the principles remain the same).

Simplified Explanation and Punnett Square Answer Key (for brevity): A full 16-square Punnett square would be constructed. The resulting genotype and phenotype ratios would reveal the probabilities of offspring inheriting various combinations of flower color and plant height. For example, the probability of getting a plant with purple flowers and tall height would be significantly higher than the probability of getting a plant with white flowers and short height. Detailed calculation of the probabilities is best done by creating the full Punnett square.

Beyond Basic Punnett Squares: Sex-Linked Traits

Punnett squares are also useful for predicting the inheritance of sex-linked traits. These traits are located on the sex chromosomes (X and Y in humans). Since males have only one X chromosome, they express recessive sex-linked traits more frequently than females.

Using Punnett Squares Effectively: A Step-by-Step Guide

1. Identify the alleles: Determine the dominant and recessive alleles for each trait.
2. Determine the genotypes of the parents: Note the alleles each parent carries.
3. Construct the Punnett square: Set up the square and fill in the possible genotypes of the offspring.
4. Analyze the results: Determine the genotype and phenotype ratios.
5. Interpret the probabilities: Express the probabilities of each genotype and phenotype as percentages.

Conclusion

Mastering Punnett squares is a crucial step in understanding Mendelian genetics. By following the steps outlined above and practicing with different examples, you'll develop a strong grasp of inheritance patterns. Remember to always clearly define your alleles and meticulously construct your Punnett square to ensure accurate predictions. With consistent practice, you'll become proficient at interpreting these powerful tools for genetic analysis.

FAQs

1. Can Punnett squares predict 100% accurate outcomes? No, Punnett squares predict probabilities, not certainties. The larger the sample size (number of offspring), the closer the observed results will likely be to the predicted ratios.
2. What if a trait isn't simply dominant or recessive? Punnett squares primarily illustrate Mendelian inheritance. More complex inheritance patterns, like incomplete dominance or codominance, require modified approaches.
3. Are there online Punnett square calculators? Yes, many websites offer Punnett square calculators that automate the process. These are great for checking your work.
4. How do I handle more than two traits in a Punnett square? While possible, Punnett squares become very large and unwieldy with more than two traits. Other methods, such as probability calculations, are often more efficient for analyzing multi-trait crosses.
5. What are some real-world applications of Punnett squares? Punnett squares are used in various fields, including agriculture (plant breeding), medicine (genetic counseling), and evolutionary biology (population genetics).

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