

Genetics Packet ~ Punnett Square Practice **KEY**

Basics

1. The following pairs of letters represent alleles of different genotypes. Indicate which pairs are **Heterozygous** and which are **Homozygous**. Also indicate whether the homozygous pairs are **Dominant** or **Recessive** (*note heterozygous pairs don't need either dominant nor recessive labels.)

A. BB = Homozygous dominant

D. gg = Homozygous recessive

B. Bb = Heterozygous

E. aa = Homozygous recessive

C. Gg = Heterozygous

F. Ee = Heterozygous

2. In humans, brown eye color (B), is dominant over blue eye color (b). What are the **phenotypes** of the following genotypes?

A. Bb = Brown eyes

B. BB = Brown eyes

C. bb = blue eyes

Monohybrid Crosses with Complete Dominance

3. A heterozygous smooth pea pod plant is crossed with a wrinkled pea pod plant. There are two alleles for pea pod, smooth and wrinkled. Use R for seed texture. Predict the offspring from this cross.

a. What is the genotype of the parents? Rr x rr

b. Set up a Punnett square with possible gametes.

	R	r
r	Rr	rr
r	Rr	rr

c. Fill in the Punnett square for the resultant offspring.

d. What is the predicted genotypic ratio for the offspring? 1 Rr : 1 rr

e. What is the predicted phenotypic ratio for the offspring? 1 smooth : 1 wrinkled

f. If this cross produced 50 seeds how many would you predict to have a wrinkled pod? 25

4. In humans, achondroplasia "dwarfism" (D) is dominant over normal (d).

A homozygous dominant (DD) person dies before the age of one.

A heterozygous (Dd) person is dwarfed. A homozygous recessive individual is normal.

A heterozygous dwarf man marries a heterozygous dwarf woman...

	D	d
D	DD	Dd
d	Dd	dd

a. What is the probability of having a normal child? 1/3... 33.3%

b. What is the probability that the next child will **also** be normal? 1/3... 33.3%

each child is a new shot at the same punnett square!

c. What is the probability of having a child that is a dwarf? 2/3... 66.6%

d. What is the probability of having a child that dies at one from this disorder? 25%

Genetics Punnett Squares Practice Packet Bio Answers

DJ Losen



Genetics Punnett Squares Practice Packet Bio Answers:

The book delves into Genetics Punnett Squares Practice Packet Bio Answers. Genetics Punnett Squares Practice Packet Bio Answers is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Genetics Punnett Squares Practice Packet Bio Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Genetics Punnett Squares Practice Packet Bio Answers
 - Chapter 2: Essential Elements of Genetics Punnett Squares Practice Packet Bio Answers
 - Chapter 3: Genetics Punnett Squares Practice Packet Bio Answers in Everyday Life
 - Chapter 4: Genetics Punnett Squares Practice Packet Bio Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Genetics Punnett Squares Practice Packet Bio Answers. The first chapter will explore what Genetics Punnett Squares Practice Packet Bio Answers is, why Genetics Punnett Squares Practice Packet Bio Answers is vital, and how to effectively learn about Genetics Punnett Squares Practice Packet Bio Answers.
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 4. In chapter 3, the author will examine the practical applications of Genetics Punnett Squares Practice Packet Bio Answers in daily life. This chapter will showcase real-world examples of how Genetics Punnett Squares Practice Packet Bio Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Genetics Punnett Squares Practice Packet Bio Answers in specific contexts. This chapter will explore how Genetics Punnett Squares Practice Packet Bio Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Genetics Punnett Squares Practice Packet Bio Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Genetics Punnett Squares Practice Packet Bio Answers.

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