

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 Punnet Squares Practice Packet

JR Anderson



Genetics Punnet Squares Practice Packet:

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

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

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