

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%

Genetic Problems Packet And Answers

Tao Wei



Genetic Problems Packet And Answers:

The book delves into Genetic Problems Packet And Answers. Genetic Problems Packet And Answers is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Genetic Problems Packet And Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Genetic Problems Packet And Answers
 - Chapter 2: Essential Elements of Genetic Problems Packet And Answers
 - Chapter 3: Genetic Problems Packet And Answers in Everyday Life
 - Chapter 4: Genetic Problems Packet And Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Genetic Problems Packet And Answers. This chapter will explore what Genetic Problems Packet And Answers is, why Genetic Problems Packet And Answers is vital, and how to effectively learn about Genetic Problems Packet And Answers.
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 4. In chapter 3, the author will examine the practical applications of Genetic Problems Packet And Answers in daily life. The third chapter will showcase real-world examples of how Genetic Problems Packet And Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Genetic Problems Packet And Answers in specific contexts. This chapter will explore how Genetic Problems Packet And Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Genetic Problems Packet And Answers. The final 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. It is highly recommended for anyone seeking to gain a comprehensive understanding of Genetic Problems Packet And Answers.

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