

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 dominantD. gg = Homozygous recessiveB. Bb = HeterozygousE. aa = Homozygous recessiveC. Gg = HeterozygousF. 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 eyesB. BB = Brown eyesC. bb = blue eyesMonohybrid 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? 1Rr : 1rre. What is the predicted phenotypic ratio for the offspring? 1 smooth : 1 wrinkledf. 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%

Gene Mutations Packet Answer Key

G Psacharopoulos



Gene Mutations Packet Answer Key:

The book delves into Gene Mutations Packet Answer Key. Gene Mutations Packet Answer Key is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gene Mutations Packet Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Gene Mutations Packet Answer Key
 - Chapter 2: Essential Elements of Gene Mutations Packet Answer Key
 - Chapter 3: Gene Mutations Packet Answer Key in Everyday Life
 - Chapter 4: Gene Mutations Packet Answer Key in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Gene Mutations Packet Answer Key. This chapter will explore what Gene Mutations Packet Answer Key is, why Gene Mutations Packet Answer Key is vital, and how to effectively learn about Gene Mutations Packet Answer Key.
 3. In chapter 2, this book will delve into the foundational concepts of Gene Mutations Packet Answer Key. The second chapter will elucidate the essential principles that need to be understood to grasp Gene Mutations Packet Answer Key in its entirety.
 4. In chapter 3, the author will examine the practical applications of Gene Mutations Packet Answer Key in daily life. The third chapter will showcase real-world examples of how Gene Mutations Packet Answer Key can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Gene Mutations Packet Answer Key in specific contexts. This chapter will explore how Gene Mutations Packet Answer Key is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Gene Mutations Packet Answer Key. This 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 Gene Mutations Packet Answer Key.

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