

# 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? 1Rr : 1rr

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	<del>DD</del>	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 Engineering Packet Answer Key

**Sebastian Brünink**



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## **Table of Contents Genetic Engineering Packet Answer Key**

1. Understanding the eBook Genetic Engineering Packet Answer Key
  - The Rise of Digital Reading Genetic Engineering Packet Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Genetic Engineering Packet Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Genetic Engineering Packet Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Genetic Engineering Packet Answer Key

- Personalized Recommendations
  - Genetic Engineering Packet Answer Key User Reviews and Ratings
  - Genetic Engineering Packet Answer Key and Bestseller Lists
5. Accessing Genetic Engineering Packet Answer Key Free and Paid eBooks
    - Genetic Engineering Packet Answer Key Public Domain eBooks
    - Genetic Engineering Packet Answer Key eBook Subscription Services
    - Genetic Engineering Packet Answer Key Budget-Friendly Options
  6. Navigating Genetic Engineering Packet Answer Key eBook Formats
    - ePub, PDF, MOBI, and More
    - Genetic Engineering Packet Answer Key Compatibility with Devices
    - Genetic Engineering Packet Answer Key Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Genetic Engineering Packet Answer Key
    - Highlighting and Note-Taking Genetic Engineering Packet Answer Key
    - Interactive Elements Genetic Engineering Packet Answer Key
  8. Staying Engaged with Genetic Engineering Packet Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Genetic Engineering Packet Answer Key
  9. Balancing eBooks and Physical Books Genetic Engineering Packet Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Genetic Engineering Packet Answer Key
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Genetic Engineering Packet Answer Key
    - Setting Reading Goals Genetic Engineering Packet Answer Key
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Genetic Engineering Packet Answer Key

- Fact-Checking eBook Content of Genetic Engineering Packet Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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