

# 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%

# Genetics Packet Answer Key

**D Kirk**



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## **Table of Contents Genetics Packet Answer Key**

1. Understanding the eBook Genetics Packet Answer Key
  - The Rise of Digital Reading Genetics Packet Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Genetics 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 Genetics Packet Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Packet Answer Key
  - Personalized Recommendations
  - Genetics Packet Answer Key User Reviews and Ratings
  - Genetics Packet Answer Key and Bestseller Lists
5. Accessing Genetics Packet Answer Key Free and Paid eBooks
  - Genetics Packet Answer Key Public Domain eBooks
  - Genetics Packet Answer Key eBook Subscription Services
  - Genetics Packet Answer Key Budget-Friendly Options
6. Navigating Genetics Packet Answer Key eBook Formats

- ePub, PDF, MOBI, and More
  - Genetics Packet Answer Key Compatibility with Devices
  - Genetics Packet Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Genetics Packet Answer Key
    - Highlighting and Note-Taking Genetics Packet Answer Key
    - Interactive Elements Genetics Packet Answer Key
  8. Staying Engaged with Genetics Packet Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Genetics Packet Answer Key
  9. Balancing eBooks and Physical Books Genetics Packet Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Genetics Packet Answer Key
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Genetics Packet Answer Key
    - Setting Reading Goals Genetics Packet Answer Key
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Genetics Packet Answer Key
    - Fact-Checking eBook Content of Genetics 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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