

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. Cg = 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 Lab 53 Answers

PT Brinkman



Genetics Lab 53 Answers:

Decoding **Genetics Lab 53 Answers**: Revealing the Captivating Potential of Verbal Expression

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Table of Contents Genetics Lab 53 Answers

1. Understanding the eBook Genetics Lab 53 Answers
 - The Rise of Digital Reading Genetics Lab 53 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetics Lab 53 Answers
 - 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 Lab 53 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Lab 53 Answers
 - Personalized Recommendations
 - Genetics Lab 53 Answers User Reviews and Ratings

- Genetics Lab 53 Answers and Bestseller Lists
- 5. Accessing Genetics Lab 53 Answers Free and Paid eBooks
 - Genetics Lab 53 Answers Public Domain eBooks
 - Genetics Lab 53 Answers eBook Subscription Services
 - Genetics Lab 53 Answers Budget-Friendly Options
- 6. Navigating Genetics Lab 53 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Genetics Lab 53 Answers Compatibility with Devices
 - Genetics Lab 53 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Genetics Lab 53 Answers
 - Highlighting and Note-Taking Genetics Lab 53 Answers
 - Interactive Elements Genetics Lab 53 Answers
- 8. Staying Engaged with Genetics Lab 53 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetics Lab 53 Answers
- 9. Balancing eBooks and Physical Books Genetics Lab 53 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetics Lab 53 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Genetics Lab 53 Answers
 - Setting Reading Goals Genetics Lab 53 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Genetics Lab 53 Answers
 - Fact-Checking eBook Content of Genetics Lab 53 Answers
 - 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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