

Name: _____

Genetics Practice Problems (Remote Edition)



1. For each genotype below, indicate whether it is heterozygous (**He**) or homozygous (**Ho**)

AA **Ho** Ee **He** Bb **He** ff **Ho**
Pp **He** gg **Ho** Dd **He** HH **Ho**

2. For each of the **genotypes** below determine what **phenotypes** would be possible.

Purple flowers are dominant to white

PP **Purple**
Pp **Purple**
pp **White**

Brown eyes are dominant to blue

BB **Brown**
Bb **Brown**
bb **Blue**

3. For each **phenotype** below, list the **genotypes** (remember to use the letter of the dominant trait)

Straight hair is dominant to curly

SS **straight**
Ss **straight**
ss **curly**

Tail spikes are dominant to plain tails

SS **spikes**
Ss **spikes**
ss **plain**



4. Complete the Punnett squares for each of the crosses listed below.

Tall (T) plants are dominant to short (t)

Tt x tt

	<u>T</u>	<u>t</u>
<u>t</u>	Tt	tt
<u>t</u>	Tt	tt

What percentage of the offspring are tall? **50%** short? **50%**

Tt x Tt

	<u>T</u>	<u>t</u>
<u>T</u>	TT	Tt
<u>t</u>	Tt	tt

What percentage of the offspring are tall? **75%** short? **25%**



5. A **homozygous tall** plant is crossed with a **short** plant.

Genetics Practice Problems Answers

SJ Ball



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Table of Contents Genetics Practice Problems Answers

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

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