

Name: *Answer Key*

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Genetics Practice Problems from http://www.biologycorner.com/worksheets/genetics_practice.html

1. For each genotype, indicate whether it is heterozygous (HE) or homozygous (HO)

AA *HO*

Ee *HE*

Ii *HE*

Mm *HE*

Bb *HE*

ff *HO*

Jj *HE*

nn *HO*

Cc *HE*

GG *HO*

kk *HO*

OO *HO*

Dd *HE*

HH *HO*

Ll *HE*

Pp *HE*

2. For each of the genotypes below, determine the phenotype.

Purple flowers are dominant to white flowers

PP *purple*

Pp *purple*

pp *white*

Brown eyes are dominant to blue eyes

BB *brown*

Bb *brown*

bb *blue*

Round seeds are dominant to wrinkled

RR *round*

Rr *round*

rr *wrinkled*

Bobtails are recessive (long tails dominant)

TT *long tail*

Tt *long tail*

tt *bobtail*

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

Straight hair is dominant to curly.

SS *straight*

Ss *straight*

ss *curly*

Pointed heads are dominant to round heads.

PP *pointed*

Pp *pointed*

pp *round*

4. Set up the square for each of the crosses listed below. The trait being studied is round seeds (dominant) and wrinkled seeds (recessive)

Rr x rr

	R	r
r	Rr	rr
r	Rr	rr

What percentage of the offspring will be round? *50%*

Rr x Rr

	R	r
R	RR	Rr
r	Rr	rr

What percentage of the offspring will be round? *75%*

Genetics Practice Problems 2 Answer Key

Emilie Sanchez



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Table of Contents Genetics Practice Problems 2 Answer Key

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

6. Navigating Genetics Practice Problems 2 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Genetics Practice Problems 2 Answer Key Compatibility with Devices
 - Genetics Practice Problems 2 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Genetics Practice Problems 2 Answer Key
 - Highlighting and Note-Taking Genetics Practice Problems 2 Answer Key
 - Interactive Elements Genetics Practice Problems 2 Answer Key
8. Staying Engaged with Genetics Practice Problems 2 Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetics Practice Problems 2 Answer Key
9. Balancing eBooks and Physical Books Genetics Practice Problems 2 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetics Practice Problems 2 Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Genetics Practice Problems 2 Answer Key
 - Setting Reading Goals Genetics Practice Problems 2 Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Genetics Practice Problems 2 Answer Key
 - Fact-Checking eBook Content of Genetics Practice Problems 2 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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