

KEY

Name MORRISON

Bikini Bottom Genetics

Scientists at Bikini Bottoms have been investigating the genetic makeup of the organisms in this community. Use the information provided and your knowledge of genetics to answer each question.

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

TT HD Bb He DD HD Ff He tt Hr dd Hr
Dd He ff Hr Tt He bb Hr BB HD FF HD

Dominant = HD
Recessive = Hr

Which of the genotypes in #1 would be considered purebred? HD * Hr

Which of the genotypes in #1 would be hybrids? He

2. Determine the phenotype for each genotype using the information provided about SpongeBob.

Yellow body color is dominant to blue.

YY yellow Yy yellow yy blue

Square shape is dominant to round.

SS square Ss square ss round

3. For each phenotype, give the genotypes that are possible for Patrick.

A tall head (T) is dominant to short (t).

Tall = TT or Tt Short = tt

Pink body color (P) is dominant to yellow (p).

Pink body = PP or Pp Yellow body = pp

4. SpongeBob SquarePants recently met SpongeSusie Roundpants at a dance. SpongeBob is heterozygous for his square shape, but SpongeSusie is round. Create a Punnett square to show the possibilities that would result if SpongeBob and SpongeSusie had children. HINT: Read question #2!

	S	s
s	Ss	ss
s	Ss	ss

- A. List the possible genotypes and phenotypes for their children.

Ss = square & ss = round

- B. What are the chances of a child with a square shape? 2 out of 4 or 50 %

- C. What are the chances of a child with a round shape? 2 out of 4 or 50 %

5. Patrick met Patti at the dance. Both of them are heterozygous for their pink body color, which is dominant over a yellow body color. Create a Punnett square to show the possibilities that would result if Patrick and Patti had children. HINT: Read question #3!

	P	p
P	PP	Pp
p	Pp	pp

- A. List the possible genotypes and phenotypes for their children.

PP & Pp = pink & pp = yellow

- B. What are the chances of a child with a pink body? 3 out of 4 or 75 %

- C. What are the chances of a child with a yellow body? 1 out of 4 or 25 %

Genetics Worksheet With Answers

Rachel Sandford



Genetics Worksheet With Answers:

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Table of Contents Genetics Worksheet With Answers

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

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