

### Assignment #1: Mendelian Genetics

This assignment is affiliated with the "Assignment #1: Mendelian Genetics" quiz on the folio course page. Complete the following problems before attempting the quiz as you will only have one attempt at the quiz and there will be a 25 minute time limit. The answers to these questions, questions concerning methodology, along with 1-2 new problems (with similar mechanisms to solving those problems) are all potential quiz questions. You must complete the quiz prior to midnight Sunday, Aug. 26.

- 1a) The summer squash has a white fruit color which is dominant over yellow fruit color. If a white fruit homozygous plant is crossed with a homozygous yellow fruit plant, what will the genotype of the first generation ( $F_1$ )?

C = White coloring; c = Yellow coloring  
CC crossed with cc

|   |    |    |
|---|----|----|
|   | C  | C  |
| c | Cc | Cc |
| c | Cc | Cc |

The genotypes of the  $F_1$  generation will all be heterozygous (Cc).

- 1b) If the individuals from the  $F_1$  generation were allowed to fertilize one another, what is the expected genotypic and phenotypic ratios?

All  $F_1$  generation must be Cc

|   |    |    |
|---|----|----|
|   | C  | c  |
| C | CC | Cc |
| c | Cc | cc |

The expected genotypic ratio would be 1:2:1 while the phenotypic ratio would be 3:1

- 2a) In the high pressure, deep, dark depths of the ocean's abyssal plains lives an organism called a viper fish. These fish resemble transparent eels with overlarge heads and very long, pointy teeth. Some of these fish can produce biochemical luminescence along the length of their bodies and some cannot. Also, some have very large eyes while others have almost no eyes at all. Assume that these two traits are each controlled by single separate genes with the production of bioluminescence (L) and large eyes (E) being dominant alleles for those traits. A female fish heterozygous for both traits happens to meet a male that is homozygous dominant for bioluminescence and homozygous recessive for eyes. List all the possible genotypes of their offspring.

Possible genotypes: LLEe, LLee, LLEe, LLeE

- 2b) What are the odds that any progeny will be bioluminescent with no eyes?

Mother = LLEe

Father = LLee

|    |      |      |      |      |
|----|------|------|------|------|
|    | LE   | Le   | LE   | Le   |
| Le | LLLe | LLee | LLLe | LLee |
| Le | LLLe | LLee | LLLe | LLee |
| Le | LLLe | LLee | LLLe | LLee |
| Le | LLLe | LLee | LLLe | LLee |

Bioluminescent along length of their bodies and no eyes (LLLe or LLee) = 50%

# Genetics Problem Solving Chapter 25 Answers

**M Planty**



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## **Table of Contents Genetics Problem Solving Chapter 25 Answers**

1. Understanding the eBook Genetics Problem Solving Chapter 25 Answers
  - The Rise of Digital Reading Genetics Problem Solving Chapter 25 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Genetics Problem Solving Chapter 25 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 Problem Solving Chapter 25 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Problem Solving Chapter 25 Answers

- Personalized Recommendations
- Genetics Problem Solving Chapter 25 Answers User Reviews and Ratings
- Genetics Problem Solving Chapter 25 Answers and Bestseller Lists
- 5. Accessing Genetics Problem Solving Chapter 25 Answers Free and Paid eBooks
  - Genetics Problem Solving Chapter 25 Answers Public Domain eBooks
  - Genetics Problem Solving Chapter 25 Answers eBook Subscription Services
  - Genetics Problem Solving Chapter 25 Answers Budget-Friendly Options
- 6. Navigating Genetics Problem Solving Chapter 25 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Genetics Problem Solving Chapter 25 Answers Compatibility with Devices
  - Genetics Problem Solving Chapter 25 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Genetics Problem Solving Chapter 25 Answers
  - Highlighting and Note-Taking Genetics Problem Solving Chapter 25 Answers
  - Interactive Elements Genetics Problem Solving Chapter 25 Answers
- 8. Staying Engaged with Genetics Problem Solving Chapter 25 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Genetics Problem Solving Chapter 25 Answers
- 9. Balancing eBooks and Physical Books Genetics Problem Solving Chapter 25 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Genetics Problem Solving Chapter 25 Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Genetics Problem Solving Chapter 25 Answers
  - Setting Reading Goals Genetics Problem Solving Chapter 25 Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Genetics Problem Solving Chapter 25 Answers

- Fact-Checking eBook Content of Genetics Problem Solving Chapter 25 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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