

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 (F₁)?

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

	C	C
c	Cc	Cc
c	Cc	Cc

The genotypes of the F₁ generation will all be heterozygous (Cc).

- 1b) If the individuals from the F₁ generation were allowed to fertilize one another, what is the expected genotypic and phenotypic ratios?

All F₁ 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	LELE	LELe	LELE	LELe
Le	LELe	LEle	LELe	LEle
LE	LELE	LELe	LELE	LELe
Le	LELe	LEle	LELe	LEle

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

Genetics Problem Set 4 Answer

IM Harris



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Table of Contents Genetics Problem Set 4 Answer

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

6. Navigating Genetics Problem Set 4 Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - Genetics Problem Set 4 Answer Compatibility with Devices
 - Genetics Problem Set 4 Answer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Genetics Problem Set 4 Answer
 - Highlighting and Note-Taking Genetics Problem Set 4 Answer
 - Interactive Elements Genetics Problem Set 4 Answer
8. Staying Engaged with Genetics Problem Set 4 Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetics Problem Set 4 Answer
9. Balancing eBooks and Physical Books Genetics Problem Set 4 Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetics Problem Set 4 Answer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Genetics Problem Set 4 Answer
 - Setting Reading Goals Genetics Problem Set 4 Answer
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Genetics Problem Set 4 Answer
 - Fact-Checking eBook Content of Genetics Problem Set 4 Answer
 - 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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