

Ms. Chirby's AP Biology Review Packet

Thank you Ms Chirby!

Unit 1: Evolution and Classification

Thinking Practice Questions

1. As a field researcher you are sent to the Arizona desert to study the prairie dog species *C. ludovicianus* to determine if the population is in Hardy-Weinberg equilibrium. Specifically, you are studying this population with respect to the gene that determines the coat color in *C. ludovicianus*. This trait is coded for by a single gene (the NDY6 gene) with two alleles (N, n) and is passed down from one generation to the next. After sampling 170 of these prairie dogs, you find that 36% of the *C. ludovicianus* population is homozygous recessive for coat color. Assuming that the population is in Hardy-Weinberg equilibrium...

a. What is the allele frequency of the N allele?

$$q^2 = 0.36 \rightarrow q = 0.6 \dots p + q = 1 \text{ so } p = 0.4$$

b. What is the frequency of homozygous dominant prairie dogs?

$$p^2 = (0.4)^2 = 0.16$$

c. What is the frequency of heterozygous prairie dogs?

$$2pq = 2(0.4)(0.6) = 0.48$$

d. What conditions must be being satisfied for this population to be in HW equilibrium?

No natural selection, no sexual selection (random mating), no gene flow, no genetic drift, no mutation

2. Sixty flowering plants are planted in a flowerbed. Forty of the plants are red-flowering homozygous dominant. Twenty of the plants are white-flowering homozygous recessive. The plants naturally pollinate and reseed themselves for several years. In a subsequent year, 178 red-flowered plants, 190 pink-flowered plants, and 52 white-flowered plants are found in the flowerbed. Use a chi-square analysis to determine if the population is in Hardy-Weinberg equilibrium.

Total initial population size = 60

$$q^2 = 20/60 = 1/3 \rightarrow q = 0.577 \rightarrow p = 0.423$$

$$p^2 = 0.179$$

$$2pq = 2(0.423)(0.577) = 0.488$$

With a final population size of 420 (178+190+52), if the population is in HW equilibrium, the following values are expected (e)

$$\text{Red flowered plants} = 0.179 \times 420 = 75$$

$$\text{Pink flowered plants} = 0.488 \times 420 = 205$$

$$\text{White flowered plants} = 0.333 \times 420 = 140$$

Chi square analysis

Null Hypothesis : The observed values for red-flowered plants, pink-flowered plants, and white-flowered plants are not significantly different from the expected values predicted by HW equilibrium.

| Phenotype | O | e | $(O-e)^2 / e$ |
|-----------|-----|----------------|---------------|
| Red | 178 | 75 | 141 |
| Pink | 190 | 205 | 1 |
| White | 52 | 140 | 313 |
| | | Sum = χ^2 | 455 |

Ap Biology Chapter 15 D Reading Answers

SJ Ball



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Table of Contents Ap Biology Chapter 15 D Reading Answers

1. Understanding the eBook Ap Biology Chapter 15 D Reading Answers
 - The Rise of Digital Reading Ap Biology Chapter 15 D Reading Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Chapter 15 D Reading 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 Ap Biology Chapter 15 D Reading Answers
 - User-Friendly Interface

4. Exploring eBook Recommendations from Ap Biology Chapter 15 D Reading Answers
 - Personalized Recommendations
 - Ap Biology Chapter 15 D Reading Answers User Reviews and Ratings
 - Ap Biology Chapter 15 D Reading Answers and Bestseller Lists
5. Accessing Ap Biology Chapter 15 D Reading Answers Free and Paid eBooks
 - Ap Biology Chapter 15 D Reading Answers Public Domain eBooks
 - Ap Biology Chapter 15 D Reading Answers eBook Subscription Services
 - Ap Biology Chapter 15 D Reading Answers Budget-Friendly Options
6. Navigating Ap Biology Chapter 15 D Reading Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Biology Chapter 15 D Reading Answers Compatibility with Devices
 - Ap Biology Chapter 15 D Reading Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Biology Chapter 15 D Reading Answers
 - Highlighting and Note-Taking Ap Biology Chapter 15 D Reading Answers
 - Interactive Elements Ap Biology Chapter 15 D Reading Answers
8. Staying Engaged with Ap Biology Chapter 15 D Reading Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Biology Chapter 15 D Reading Answers
9. Balancing eBooks and Physical Books Ap Biology Chapter 15 D Reading Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Biology Chapter 15 D Reading Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ap Biology Chapter 15 D Reading Answers
 - Setting Reading Goals Ap Biology Chapter 15 D Reading Answers
 - Carving Out Dedicated Reading Time

-
12. Sourcing Reliable Information of Ap Biology Chapter 15 D Reading Answers
 - Fact-Checking eBook Content of Ap Biology Chapter 15 D Reading 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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