

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

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**Bertha Tannehill, Anna Lorraine
Guthrie, Neltje Marie Tannehill Shimer**

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Table of Contents Ap Biology Chapter 15 Reading Guide Answers

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

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

- Fact-Checking eBook Content of Ap Biology Chapter 15 Reading Guide 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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