

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

Chapter 15 Ap Biology Study Guide Answers

Mark Anestis, Kellie Ploeger Cox



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Table of Contents Chapter 15 Ap Biology Study Guide Answers

1. Understanding the eBook Chapter 15 Ap Biology Study Guide Answers
 - The Rise of Digital Reading Chapter 15 Ap Biology Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 15 Ap Biology Study 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 Chapter 15 Ap Biology Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 15 Ap Biology Study Guide Answers
 - Personalized Recommendations
 - Chapter 15 Ap Biology Study Guide Answers User Reviews and Ratings
 - Chapter 15 Ap Biology Study Guide Answers and Bestseller Lists
5. Accessing Chapter 15 Ap Biology Study Guide Answers Free and Paid eBooks
 - Chapter 15 Ap Biology Study Guide Answers Public Domain eBooks
 - Chapter 15 Ap Biology Study Guide Answers eBook Subscription Services
 - Chapter 15 Ap Biology Study Guide Answers Budget-Friendly Options
6. Navigating Chapter 15 Ap Biology Study Guide Answers eBook Formats

- ePub, PDF, MOBI, and More
- Chapter 15 Ap Biology Study Guide Answers Compatibility with Devices
- Chapter 15 Ap Biology Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 15 Ap Biology Study Guide Answers
 - Highlighting and Note-Taking Chapter 15 Ap Biology Study Guide Answers
 - Interactive Elements Chapter 15 Ap Biology Study Guide Answers
- 8. Staying Engaged with Chapter 15 Ap Biology Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 15 Ap Biology Study Guide Answers
- 9. Balancing eBooks and Physical Books Chapter 15 Ap Biology Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 15 Ap Biology Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 15 Ap Biology Study Guide Answers
 - Setting Reading Goals Chapter 15 Ap Biology Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 15 Ap Biology Study Guide Answers
 - Fact-Checking eBook Content of Chapter 15 Ap Biology Study 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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