

**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 = $\chi^2$	455

# Chapter 15 Ap Biology Study Guide Answers

**Martha R. Taylor**



## **Chapter 15 Ap Biology Study Guide Answers:**

**Kaplan AP Biology 2016** Linda Brooke Stabler, Mark Metz, Allison Wilkes, 2015-08-04 The Advanced Placement exam preparation guide that delivers 75 years of proven Kaplan experience and features exclusive strategies practice and review to help students ace the NEW AP Biology exam Students spend the school year preparing for the AP Biology exam Now it s time to reap the rewards money saving college credit advanced placement or an admissions edge However achieving a top score on the AP Biology exam requires more than knowing the material students need to get comfortable with the test format itself prepare for pitfalls and arm themselves with foolproof strategies That s where the Kaplan plan has the clear advantage Kaplan s AP Biology 2016 has been updated for the NEW exam and contains many essential and unique features to improve test scores including 2 full length practice tests and a full length diagnostic test to identify target areas for score improvement Detailed answer explanations Tips and strategies for scoring higher from expert AP teachers and students who scored a perfect 5 on the exam End of chapter quizzes Targeted review of the most up to date content and key information organized by Big Idea that is specific to the revised AP Biology exam Kaplan s AP Biology 2016 provides students with everything they need to improve their scores guaranteed Kaplan s Higher Score guarantee provides security that no other test preparation guide on the market can match Kaplan has helped more than three million students to prepare for standardized tests We invest more than 45 million annually in research and support for our products We know that our test taking techniques and strategies work and our materials are completely up to date for the NEW AP Biology exam Kaplan s AP Biology 2016 is the must have preparation tool for every student looking to do better on the NEW AP Biology test

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