

Analysis of a Squirrel Gene Pool

Suppose that a gene pool of a squirrel population is analyzed and the following data are obtained. Assume that the population is in Hardy-Weinberg equilibrium. What is the frequency of the dominant allele? What is the frequency of the recessive allele? What is the frequency of the heterozygous genotype? What is the frequency of the homozygous dominant genotype? What is the frequency of the homozygous recessive genotype? What is the frequency of the heterozygous genotype? What is the frequency of the homozygous dominant genotype? What is the frequency of the homozygous recessive genotype?

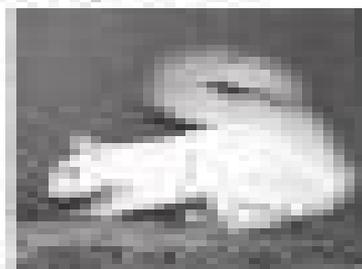
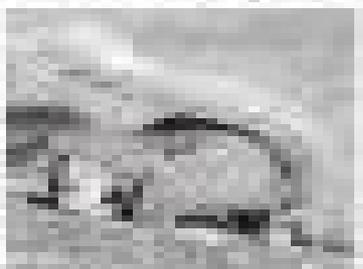


Figure 1: A graph showing the frequency of alleles in a squirrel gene pool over time.

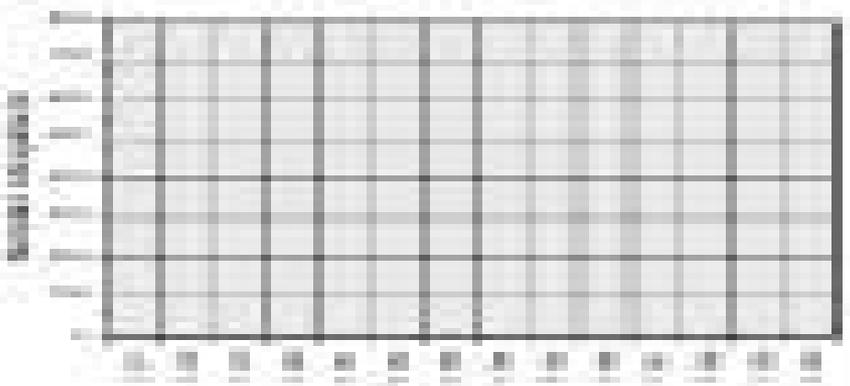
Year	Allele A	Allele a	Genotype AA	Genotype Aa	Genotype aa
1970	0.70	0.30	0.49	0.42	0.09
1975	0.70	0.30	0.49	0.42	0.09
1980	0.70	0.30	0.49	0.42	0.09
1985	0.70	0.30	0.49	0.42	0.09
1990	0.70	0.30	0.49	0.42	0.09
1995	0.70	0.30	0.49	0.42	0.09
2000	0.70	0.30	0.49	0.42	0.09
2005	0.70	0.30	0.49	0.42	0.09
2010	0.70	0.30	0.49	0.42	0.09
2015	0.70	0.30	0.49	0.42	0.09
2020	0.70	0.30	0.49	0.42	0.09
2025	0.70	0.30	0.49	0.42	0.09
2030	0.70	0.30	0.49	0.42	0.09
2035	0.70	0.30	0.49	0.42	0.09
2040	0.70	0.30	0.49	0.42	0.09
2045	0.70	0.30	0.49	0.42	0.09
2050	0.70	0.30	0.49	0.42	0.09
2055	0.70	0.30	0.49	0.42	0.09
2060	0.70	0.30	0.49	0.42	0.09
2065	0.70	0.30	0.49	0.42	0.09
2070	0.70	0.30	0.49	0.42	0.09
2075	0.70	0.30	0.49	0.42	0.09
2080	0.70	0.30	0.49	0.42	0.09
2085	0.70	0.30	0.49	0.42	0.09
2090	0.70	0.30	0.49	0.42	0.09
2095	0.70	0.30	0.49	0.42	0.09
2100	0.70	0.30	0.49	0.42	0.09

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2040	0.70	0.30	0.49	0.42	0.09
2045	0.70	0.30	0.49	0.42	0.09
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2070	0.70	0.30	0.49	0.42	0.09
2075	0.70	0.30	0.49	0.42	0.09
2080	0.70	0.30	0.49	0.42	0.09
2085	0.70	0.30	0.49	0.42	0.09
2090	0.70	0.30	0.49	0.42	0.09
2095	0.70	0.30	0.49	0.42	0.09
2100	0.70	0.30	0.49	0.42	0.09

1. Using the data provided, calculate the frequency of alleles and genotypes in the squirrel gene pool over time. (20 points)

2. Explain how the data demonstrate the Hardy-Weinberg equilibrium. (10 points)

3. Discuss the implications of the data for the squirrel population. (10 points)



Analysis Of A Squirrel Gene Pool Answer Key

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Table of Contents Analysis Of A Squirrel Gene Pool Answer Key

1. Understanding the eBook Analysis Of A Squirrel Gene Pool Answer Key
 - The Rise of Digital Reading Analysis Of A Squirrel Gene Pool Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Analysis Of A Squirrel Gene Pool Answer Key
 - 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 Analysis Of A Squirrel Gene Pool Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analysis Of A Squirrel Gene Pool Answer Key
 - Personalized Recommendations
 - Analysis Of A Squirrel Gene Pool Answer Key User Reviews and Ratings
 - Analysis Of A Squirrel Gene Pool Answer Key and Bestseller Lists
5. Accessing Analysis Of A Squirrel Gene Pool Answer Key Free and Paid eBooks
 - Analysis Of A Squirrel Gene Pool Answer Key Public Domain eBooks
 - Analysis Of A Squirrel Gene Pool Answer Key eBook Subscription Services
 - Analysis Of A Squirrel Gene Pool Answer Key Budget-Friendly Options
6. Navigating Analysis Of A Squirrel Gene Pool Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Analysis Of A Squirrel Gene Pool Answer Key Compatibility with Devices
 - Analysis Of A Squirrel Gene Pool Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analysis Of A Squirrel Gene Pool Answer Key
 - Highlighting and Note-Taking Analysis Of A Squirrel Gene Pool Answer Key
 - Interactive Elements Analysis Of A Squirrel Gene Pool Answer Key
8. Staying Engaged with Analysis Of A Squirrel Gene Pool Answer Key

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Analysis Of A Squirrel Gene Pool Answer Key
9. Balancing eBooks and Physical Books Analysis Of A Squirrel Gene Pool Answer Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Analysis Of A Squirrel Gene Pool Answer Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Analysis Of A Squirrel Gene Pool Answer Key
- Setting Reading Goals Analysis Of A Squirrel Gene Pool Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Analysis Of A Squirrel Gene Pool Answer Key
- Fact-Checking eBook Content of Analysis Of A Squirrel Gene Pool Answer Key
 - 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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