

Student Exploration: Hardy-Weinberg Equilibrium

Vocabulary: allele, genotype, Hardy-Weinberg equation, Hardy-Weinberg principle, heterozygous, homozygous, Punnett square

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Suppose the feather color of a bird is controlled by two **alleles**, D and d. The D allele results in dark feathers, while the d allele results in lighter feathers.

- Suppose two Dd birds mate. What percentages of DD, Dd, and dd offspring would you predict? Use the **Punnett square** at right to help determine your answer.

DD: 25% Dd: 50% dd: 25%

- In this situation, what ratio of **heterozygous** (Dd) to **homozygous** (DD and dd) offspring would you expect to find? **1:1 ratio of heterozygous (Dd) to homozygous (DD and dd).**

Gizmo Warm-up

Many factors—immigration, natural selection, hunting, and so forth—can influence the composition of a population. To determine if one of these factors is affecting a population, it is useful to know what a population looks like when none of these factors is present.



In 1908, Godfrey Hardy and Wilhelm Weinberg independently discovered the laws that govern such populations. These laws can be explored in the Hardy-Weinberg Equilibrium Gizmo™.

- The parrots you see on the SIMULATION pane represent a larger population of 500 parrots. Select the **TABLE** tab. How many parrots of each **genotype** are in the initial population?

DD: 250 parrots Dd: 100 parrots dd: 150 parrots

- Return to the **DESCRIPTION** tab. Click **Begin**, and then click **Breed**. What happens?

The birds reproduce, making eggs.

- Click **Hatch**, and look on the **TABLE** tab. What are the parrot populations now?

DD: 178 Dd: 248 dd: 78

Hardy Weinberg Equilibrium Gizmo Answers

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Hardy Weinberg Equilibrium Gizmo Answers:

The book delves into Hardy Weinberg Equilibrium Gizmo Answers. Hardy Weinberg Equilibrium Gizmo Answers is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Hardy Weinberg Equilibrium Gizmo Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Hardy Weinberg Equilibrium Gizmo Answers
 - Chapter 2: Essential Elements of Hardy Weinberg Equilibrium Gizmo Answers
 - Chapter 3: Hardy Weinberg Equilibrium Gizmo Answers in Everyday Life
 - Chapter 4: Hardy Weinberg Equilibrium Gizmo Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Hardy Weinberg Equilibrium Gizmo Answers. The first chapter will explore what Hardy Weinberg Equilibrium Gizmo Answers is, why Hardy Weinberg Equilibrium Gizmo Answers is vital, and how to effectively learn about Hardy Weinberg Equilibrium Gizmo Answers.
 3. In chapter 2, this book will delve into the foundational concepts of Hardy Weinberg Equilibrium Gizmo Answers. The second chapter will elucidate the essential principles that need to be understood to grasp Hardy Weinberg Equilibrium Gizmo Answers in its entirety.
 4. In chapter 3, the author will examine the practical applications of Hardy Weinberg Equilibrium Gizmo Answers in daily life. This chapter will showcase real-world examples of how Hardy Weinberg Equilibrium Gizmo Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Hardy Weinberg Equilibrium Gizmo Answers in specific contexts. The fourth chapter will explore how Hardy Weinberg Equilibrium Gizmo Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Hardy Weinberg Equilibrium Gizmo Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Hardy Weinberg Equilibrium Gizmo Answers.

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