



Mouse Genetics (Two Traits)

Answer Key

Vocabulary: allele, genotype, phenotype, probability, Punnett square

[Note to teachers and students: This Gizmo was designed as a follow-up to the Mouse Genetics (One Trait) Gizmo. We recommend doing that activity before trying this one.]

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

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

1. A single coin is flipped four times. What do you think is the most likely outcome?

A. Four heads	D. One head, three tails
B. Three heads, one tail	E. Four tails
C. Two heads, two tails	F. All are equally likely

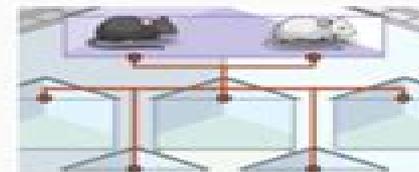
Answers will vary. [The correct answer is C: Two heads, two tails (3/8 probability).]

2. What do you think are the odds of getting four tails in a row? Explain your answer.

Answers will vary. [The correct answer is 1/16, or 6.25%. This is equal to (1/4)⁴, or 0.5⁴.]

Gizmo Warm-up

On the *Mouse Genetics (Two Traits)* Gizmo, drag mice into the **Parent 1** and **Parent 2** spaces, and then click **Breed** to see their offspring. Experiment with different combinations of parent mice.



1. What must be true to have offspring with black fur?
At least one parent has black fur.
2. What must be true to have offspring with white fur?
Answers will vary. [If both parents are homozygous, then both parents must have white fur. White fur could also result if one or both of the parents are heterozygous for fur color.]
3. What must be true to have offspring with black eyes? *At least one parent has black eyes.*
4. What must be true to have offspring with red eyes? *Answers will vary (see above).*
5. What must be true to have offspring with red eyes and white fur?
Answers will vary. If both parents are homozygous for these traits, then both parents must have red eyes and white fur. These traits could also result if one or both parents are heterozygous for fur color and eye color.



Mouse Genetics Two Traits Gizmo Answer Key

Ian J. Jackson, Catherine M. Abbott

A red circular graphic with a gradient, appearing as a semi-circle on the right side of the slide, partially overlapping the grey bar.

Mouse Genetics Two Traits Gizmo Answer Key:

Mouse Genetics Lee M. Silver,1995 **The Mouse in Animal Genetics and Breeding Research** Eugene J. Eisen,2005

The sequencing of the mouse genome has placed the mouse front and center as the most important mammalian genetics model. However, no recent volume has detailed the genetic contributions the mouse has made across the spectrum of the life sciences. This book aims to fill that vacuum. Mouse genetics research has made enormous contributions to the understanding of basic genetics, human genetics, and livestock genetics and breeding. The wide-ranging topics in the book include the mouse genome sequencing effort, molecular dissection of quantitative traits, embryo biotechnology, ENU mutagenesis, and genetics of disease resistance, and have been written by experts in their respective fields. Chapter 1: The Beginnings: Ode To A Wee Mouse 58 KB

Mouse Genetics and Transgenics, 1999-12-09. A unique book that integrates knowledge from a wide range of expertise specifically applied to the mouse and addressed at a wide audience from those new to the field to experts who want an update on the state of the art. **Mouse Genetics and Transgenics** covers all aspects of using the mouse as a genetic model organism: care, archiving stocks as frozen embryos or sperm, making new mutations by chemical mutagenesis, transgenesis, and gene targeting; mapping mutations and polygenic traits by cytogenetic, genetic, and physical means; and disseminating and researching information via the Internet.

Mouse Genetics and Transgenics Ian J. Jackson, Catherine M. Abbott, 2000. This unique book integrates knowledge from a wide range of expertise specifically applied to the mouse and addressed at a wide audience from those new to the field to experts who want an update on the state of the art. **Mouse Genetics and Transgenics: A Practical Approach** covers all aspects of using the mouse as a genetic model organism: care and husbandry, archiving stocks as frozen embryos or sperm, making new mutations by chemical mutagenesis, transgenesis, gene targeting, mapping mutations and polygenic traits by cytogenetic, genetic, and physical means; and disseminating and researching information via the Internet.

Mouse Genetics After the Mouse Genome, 2004

Mouse Genetics Two Traits Gizmo Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mouse Genetics Two Traits Gizmo Answer Key : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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