



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

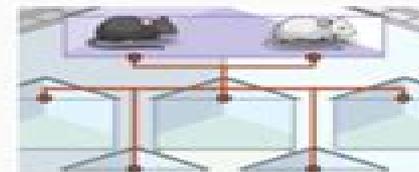
Answers will vary. [The correct answer is C: Two heads, two tails (3/8 probability).]

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

L Reisser



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 targetting 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

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