

Genetic Crosses that Involve 2 Traits -- Biology 2A

In rabbits, Grey hair is dominant to white hair. Also in rabbits, black eyes are dominant to red eyes. These letters represent the genotypes of the rabbits:

GG = grey hair
Gg = grey hair
gg = white hair

BB = black eyes
Bb = black eyes
bb = red eyes



1. What are the phenotypes (descriptions) of rabbits that have the following genotypes:

Ggbb grey hair/red eyes
ggbb white hair/red eyes

ggBB white hair/black eyes
GgBb grey hair/black eyes

2. A male rabbit with the genotype **GGbb** is crossed with a female rabbit with the genotype **ggBb**. The square is set up below. Fill it out and determine the phenotypes and proportions in the offspring.

	Gb	Gb	Gb	Gb
gB	GgBb	GgBb	GgBb	GgBb
gB	GgBb	GgBb	GgBb	GgBb
gb	Ggbb	Ggbb	Ggbb	Ggbb
gb	Ggbb	Ggbb	Ggbb	Ggbb

How many out of 16 are:

Grey, red eyed 8

Grey, black eyed 8

White, red eyed 0

White, black eyed 0

3. A male rabbit with the genotype GgBb. Determine the gametes produced by this rabbit (the sperm would have these combinations of alleles) Hint there are 4 combinations.

GB Gb gB gb

4. A female rabbit has the genotype ggBb. Determine the gametes (eggs) produced by this rabbit.

gB gb

5. Use the gametes from #3 and #4 to set up the punnet square below. Put the male's gametes on the top and the female's gametes down the side. Then fill out the square and determine what kind of offspring would be produced from this cross and in what proportion.

	GB	Gb	gB	gb
gB	GgBB	GgBb	ggBB	ggBb
gB	GgBB	GgBb	ggBB	ggBb
gb	Ggbb	Ggbb	ggbb	ggbb
gb	Ggbb	Ggbb	ggbb	ggbb

GgBb= grey hair/black eyes 4 out of 16
ggBB= white hair/black eyes 4 out of 16
Ggbb= grey hair/red eyes 4 out of 16
ggbb= white hair/red eyes 4 out of 16

Genetic Crosses That Involve 2 Traits Answer Key

Anthea Maton



Genetic Crosses That Involve 2 Traits Answer Key:

CliffsStudySolver: Biology Max Rechtman, 2007-05-03 The CliffsStudySolver workbooks combine 20 percent review material with 80 percent practice problems and the answers to help make your lessons stick CliffsStudySolver Biology is for students who want to reinforce their knowledge with a learn by doing approach Inside you ll get the practice you need to master biology with problem solving tools such as Clear concise reviews of every topic Practice problems in every chapter with explanations and solutions A diagnostic pretest to assess your current skills A full length exam that adapts to your skill level Easy to understand tables and graphs clear diagrams and straightforward language can help you gain a solid foundation in biology and open the doors to more advanced knowledge This workbook begins with the basics the scientific method microscopes and microscope measurements the major life functions cell structure classification of biodiversity and a chemistry review You ll then dive into topics such as Plant biology Structure and function of plants leaves stems roots photosynthesis Human biology Nutrition and digestion circulation respiration excretion locomotion regulation Animal biology Animal like protists phyla Cnidaria Annelida and Arthropoda Reproduction Organisms plants and human Mendelian Genetics Patterns of Inheritance Modern Genetics Evolution Fossils comparative anatomy and biochemistry The hardy Weinberg Law Ecology Abiotic and biotic factors energy flow material cycles biomes environmental protection Practice makes perfect and whether you re taking lessons or teaching yourself CliffsStudySolver guides can help you make the grade Author Max Rechtman taught high school biology in the New York City public school system for 34 years before retiring in 2003 He was a teacher mentor and holds a New York State certificate in school administration and supervision **Biology Homework for OCR A for Double and Separate Awards** Jackie Clegg, Elaine Gill, 2001 This series is for schools following OCR A double or separate award for GCSE science The resources offer preparation for the OCR exams with teacher support to minimise time spent on administration The teacher s resources are available on CD ROM in a fully customizable format *Educart CBSE Class 10 SCIENCE One Shot Question Bank 2024-25 (Updated for 2025 Exam)* Educart, Prashant Kirad, 2024-06-17 What You Get Ch wise NCERT Important Q s Past 10 Year Commonly asked Questions Competency based Q s Educart CBSE Class 10 Science One Shot Question Bank Based on the Revised CBSE 2023 pattern It has important questions from all the CBSE sources Solution with detailed explanations available at the end of the chapter Practice competency based questions based on the latest pattern Unit wise sample papers to practice sample paper based questions Practice high order questions with Push Yourself or Self assessment questions Why choose this book India s First Lowest cost CBSE Important Questions Book Includes Important Questions from all CBSE Resources **GO TO Objective NEET 2021 Biology Guide 8th Edition** Disha Experts, Prentice Hall Exploring Life Science Anthea Maton, 1997 **Biology**, 2015-03-16 Biology for grades 6 to 12 is designed to aid in the review and practice of biology topics such as matter and atoms cells classifying animals genetics plant and animal structures human body systems and ecological relationships The book includes realistic diagrams and

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animal biology appreciate the diversity found in the animal kingdom and understand the evolutionary relationships and become familiar with the structure of vertebrate organ systems *Principles of Plant Genetics and Breeding* George Acquaah, 2020-09-28 The revised edition of the bestselling textbook covering both classical and molecular plant breeding *Principles of Plant Genetics and Breeding* integrates theory and practice to provide an insightful examination of the fundamental principles and advanced techniques of modern plant breeding Combining both classical and molecular tools this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and plants particularly in response to the increasing demands of growing populations Illustrated chapters cover a wide range of topics including plant reproductive systems germplasm for breeding molecular breeding the common objectives of plant breeders marketing and societal issues and more Now in its third edition this essential textbook contains extensively revised content that reflects recent advances and current practices Substantial updates have been made to its molecular genetics and breeding sections including discussions of new breeding techniques such as zinc finger nuclease oligonucleotide directed mutagenesis RNA dependent DNA methylation reverse breeding genome editing and others A new table enables efficient comparison of an expanded list of molecular markers including Allozyme RFLPs RAPD SSR ISSR DAMD AFLP SNPs and ESTs Also new and updated Industry Highlights sections provide examples of the practical application of plant breeding methods to real world problems This new edition Organizes topics to reflect the stages of an actual breeding project Incorporates the most recent technologies in the field such as CRISPR genome editing and grafting on GM stock Includes numerous illustrations and end of chapter self assessment questions key references suggested readings and links to relevant websites Features a companion website containing additional artwork and instructor resources *Principles of Plant Genetics and Breeding* offers researchers and professionals an invaluable resource and remains the ideal textbook for advanced undergraduates and graduates in plant science particularly those studying plant breeding biotechnology and genetics

Biological Science Freeman, Scott Freeman, Warren W. Burggren, 2002-03 By Warren Burggren University of North Texas Jay Brewster Pepperdine University Laurel Hester South Carolina Governor's School for Science and Mathematics Rather than repeat what is covered in the textbook the Student Study Guide will help students study biology and think like a scientist Introductory chapters on Data Interpretation Looking for Relationships Experimentation and Writing will be illustrated and developed for the student Each text chapter will then be covered with the goal of reinforcing the ideas mentioned in introductory chapters and to tie them to appropriate topics within a chapter *Laboratory Manual of Genetics* A. M. Winchester, Peter J. Wejksnora, 1995-12 Give your students the opportunity to apply the scientific method to real not simulated lab investigations in both classical and molecular genetics It is appropriate for a range of genetics and molecular biology laboratory courses because it incorporates material spanning the areas of basic genetics molecular genetics and human genetics Since the first edition *Laboratory Manual of Genetics* has been carefully constructed to be student oriented

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