

SECTION 3-2

REVIEW AND REINFORCE

Probability and Genetics

• Understanding Main Ideas

Complete the two Punnett squares below, and then answer the questions on a separate sheet of paper.

1. Punnett Square A:

	B	b
B	BB	Bb
b	Bb	bb

2. Punnett Square B:

	B	b
b	Bb	bb
b	Bb	bb

- In the cross between two black guinea pigs shown in Punnett Square A, what is the probability that an offspring will be black? White? 75% Black
25% White
- Is it possible that the cross between two black guinea pigs in Punnett Square A would not produce a white guinea pig? Explain. Yes, there is a 75% chance that the offspring will be Black.
- What color are the guinea pig parents in the cross shown in Punnett Square B?
- Which guinea pig parent(s) in Punnett Square B is homozygous? Which is heterozygous? Explain how you know. Bb is Black and bb is white. Bb is heterozygous because they are both the same alleles and bb is homozygous because there are two different alleles.
- Calculate the probability that an offspring will be black in the cross in Punnett Square B. What is the probability that an offspring will be white? 50% chance that the offspring will be Black and 50% chance the offspring will be White.

• Building Vocabulary

Match each term with its definition by writing the letter of the correct definition on the line beside the term.

- _____ 8. heterozygous
- _____ 9. Punnett square
- _____ 10. genotype
- _____ 11. concordance
- _____ 12. probability
- _____ 13. homozygous
- _____ 14. phenotype

- a. a chart that shows all the possible combinations of alleles that can result from a genetic cross
- b. the likelihood that a particular event will occur
- c. an organism that has two identical alleles for a trait
- d. an organism's physical appearance
- e. an organism's genetic makeup, or allele combinations
- f. an organism that has two different alleles for a trait
- g. inheritance patterns in which the alleles are neither dominant nor recessive

Probability And Heredity Answer Key

SB Merriam



Probability And Heredity Answer Key:

Science Explorer Physical Science Michael J. Padilla, Ioannis Miaculis, Martha Cyr, **Holt Biology: Mendel and heredity**, 2003 **Handbook Of Forensic Genetics: Biodiversity And Heredity In Civil And Criminal Investigation** Antonio Amorim, Bruce Budowle, 2016-08-30 The use of genetics for the resolution of legal conflicts has recently been gaining a higher profile largely as a result of scientific and technological advancements and the substantial broadening of applications The theoretical framework underlying forensic genetics is the same irrespective of the materials and technology involved however a great divide still exists in the manner and processes related to human and non human analyses This advanced handbook intends to overcome the historical barriers between the scientific fields of legal medicine biodiversity and conservation and food analysis by presenting a unifying global perspective on the implications of genetic analyses on forensic affairs This global perspective is presented in three parts modes of inheritance and reproduction and taxonomic implications current technological approaches and future perspectives and a comprehensive systematization of the types of applications and organisms Finally a critical revision of the current investigative expert systems and future perspectives is undertaken This book provides a collection of international research thereby constituting a reference platform for the forensic community and an advanced textbook for graduate students It encompasses the theoretical bases of the field and presents in the context of both perspectives of forensic action probative and investigative a comprehensive coverage of the current applications and technological state of the art *Ebook: Biology* BROOKER, 2014-09-16 *Ebook Biology* **Basic Genetics**, 1997-06-28 *Heredity*, 1993 *Science Units for Grades 9-12* Randy L. Bell, Joe Garofalo, 2005 Sample topics include cell division virtual dissection earthquake modeling the Doppler Effect and more **CliffsAP Biology, 3rd Edition** Phillip E Pack, 2011-11-08 Your complete guide to a higher score on the AP Biology exam Included in book A review of the AP exam format and scoring proven strategies for answering multiple choice questions and hints for tackling the essay questions A list of 14 specific must know principles are covered Includes sample questions and answers for each subject Laboratory Review includes a focused review of all 12 AP laboratory exercises AP Biology Practice Tests features 2 full length practice tests that simulate the actual test along with answers and complete explanations AP is a registered trademark of the College Board which was not involved in the production of and does not endorse this product **VCE Biology** Robert Russell, 2006 , *Bioinformatics in Human Health and Heredity*, 2012-12-31 The field of statistics not only affects all areas of scientific activity but also many other matters such as public policy It is branching rapidly into so many different subjects that a series of handbooks is the only way of comprehensively presenting the various aspects of statistical methodology applications and recent developments The Handbook of Statistics a series of self contained reference books Each volume is devoted to a particular topic in statistics with Volume 28 dealing with bioinformatics Every chapter is written by prominent workers in the area to which the volume is devoted The series is addressed to the entire community of statisticians and

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conditions to the impact of the aviation industry on public health from an increasingly mobile global populace to numerous clinical specialty considerations including a variety of common diseases and risks emanating from the aerospace environment This text is an invaluable reference for all students and practitioners who engage in aeromedical clinical practice engineering education research mission planning population health and operational support **CLEP Success** Peterson's,2007-05-04 Offers advice on improving scores on the CLEP and includes reviews for five CLEP subjects and five full length practice tests with explanatory answers

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