

Pre-AP Biology Genetics Practice Problems

You **WILL** have problems like these on the test. Practice! Due Monday November 22nd

Part 1 Introduction:

1. Describe the genotypes given (use your notes). The first two are already done.

A. DD *homozygous, dominant*

B. Dd *heterozygous*

C. dd _____

D. ss _____

E. Yy _____

F. WW _____

2. In humans, brown eye color (B), is dominant over blue eye color (b). What are the **phenotypes** of the following genotypes? In other words, what color eyes will they have?

A. BB _____

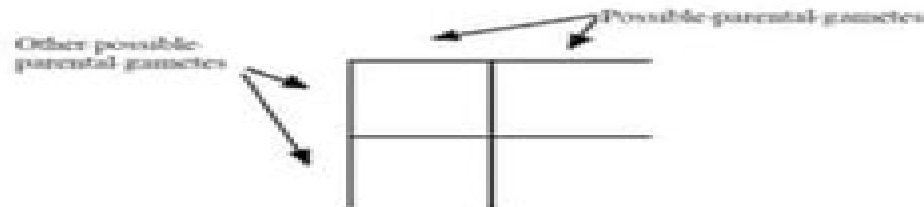
B. bb _____

C. Bb _____

The Five (5) Steps Associated With Solving a Genetics Problem:

If you take the time to follow the directions below, you will be able to solve most genetics problems.

1. **Determine the genotypes** of the parents or whatever is given in problem.
2. Set up your **Punnett square** as follows: *# sq. based on possible gametes that can be formed.



3. **Fill in the squares.** This represents the possible combinations that could occur during fertilization.
4. **Write out the possible genotypic ratio** of the offspring.
5. **Using the genotypic ratio determine the phenotypic ratio** for the offspring.

Part 2: Sample Problem (Just read this over, it is a practice problem)

A heterozygous male, black eyed mouse is crossed with a red eyed, female mouse.

Predict the possible offspring!

Step 1: Determine the genotype of the parents. The male parent is **heterozygous** which means he has one allele for black eyes and one allele for red eyes. Since his eyes are black, this means that black allele must be dominant over the red allele. So the male parents genotype is "**Bb**" (B = allele for black eye, b = allele for red eye).

The female parent has red eyes, there is only one way to have this recessive phenotype, so she must to be homozygous recessive. Homozygous recessive means that her genotype must be "**bb**". Therefore, genotype of the parents is **Bb x bb**.

Pre Ap Biology Genetics Practice Problems Key

Yasuko Kanno



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AP Biology Prep Plus 2018-2019 Kaplan Test Prep, 2017-12-05 Kaplan's AP Biology Prep Plus 2018 2019 is completely restructured and aligned with the current AP exam giving you concise review of the most tested content to quickly build your skills and confidence With bite sized test like practice sets and customizable study plans our guide fits your schedule We're so confident that AP Biology Prep Plus offers the guidance you need that we guarantee it After studying with our online resources and book you'll score higher on the AP exam or you'll get your money back To access your online resources go to kaptest.com/booksonline and follow the directions You'll need your book handy to complete the process Personalized Prep Realistic Practice Two full length Kaplan practice exams with comprehensive explanations Online test scoring tool to convert your raw score into a 1-5 scaled score Pre and post quizzes in each chapter so you can monitor your progress Customizable study plans tailored to your individual goals and prep time Online quizzes and workshops for additional practice Focused content review on the essential concepts to help you make the most of your study time Test taking strategies designed specifically for AP Biology Expert Guidance We know the test our AP experts make sure our practice questions and study materials are true to the exam We know students every explanation is written to help you learn and our tips on the exam structure and question formats will help you avoid surprises on Test Day We invented test prep Kaplan www.kaptest.com has been helping students for 80 years and more than 95% of our students get into their top choice schools *AP Biology Prep Plus 2020 & 2021* Kaplan Test Prep, 2020-07-07 Kaplan's AP Biology Prep Plus 2020 2021 is revised to align with the latest exam This edition features hundreds of practice questions in the book complete explanations for every question and a concise review of high yield content to quickly build your skills and confidence Test like practice comes in 3 full length exams 16 pre chapter quizzes and 16 post chapter quizzes Customizable study plans ensure that you make the most of the study time you have We're so confident that AP Biology Prep Plus offers the guidance you need that we guarantee it after studying with our online resources and book you'll score higher on the AP exam or you'll get your money back To access your online resources go to kaptest.com/moreonline and follow the directions You'll need your book handy to complete the process The College Board has announced that the 2021 exam dates for AP Biology will be May 14 May 27 or June 11 depending on the testing format Each school will determine the testing format for their students Expert Guidance We know the test our AP experts make sure our practice questions and study materials are true to the exam We know students every explanation is written to help you learn and our tips on the exam structure and question formats will help you avoid surprises on Test Day We invented test prep Kaplan kaptest.com has been helping students for 80 years and 9 out of 10 Kaplan students get into one or more of their top choice colleges **Myers' Psychology for AP*** David G. Myers, 2010-03-12 Already The Bestselling AP Psychology Author Myers Writes His First Exclusive AP Psych Text Watch Dave G Myers introduce this new text here David G Myers is best known for his top selling college psychology texts used successfully across North America in thousands of AP

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