

Hardy – Weinberg Practice Problems

AP Biology

Book Problems: pg. 462 (Chapter 23) - #2, 3

Study Guide Problems: pg. 181 (Chapter 23) - # 3, 4, 5, 11, 12 (tough)

Additional Practice Problems:

1. If 9% of an African population is born with a severe form of sickle-cell anemia (ss), what percentage of the population will be more resistant to malaria because they are heterozygous (Ss) for the sickle-cell gene?
2. In a population that meets the Hardy Weinberg equilibrium assumptions, 81% of the individuals are homozygous recessive for a gene. What percentage of the individuals would be expected to be heterozygous for this gene in the next generation?
3. You have sampled a population in which you know that the percentage of the homozygous recessive genotype (aa) is 36%. Using that 36%, calculate the following:
 - A. The frequency of the " aa " genotype.
 - B. The frequency of the " a " allele.
 - C. The frequency of the " A " allele.
 - D. The frequencies of the genotypes " AA " and " Aa ."
 - E. The frequencies of the two possible phenotypes if " A " is completely dominant over " a ."
4. There are 100 students in a class. Ninety-six did well in the course whereas four blew it totally and received a grade of F. Sorry. In the highly unlikely event that these traits are genetic rather than environmental, if these traits involve dominant and recessive alleles, and if the four (4%) represent the frequency of the homozygous recessive condition, please calculate the following:
 - A. The frequency of the recessive allele.
 - B. The frequency of the dominant allele.
 - C. The frequency of heterozygous individuals.
5. Within a population of butterflies, the color brown (B) is dominant over the color white (b). And, 40% of all butterflies are white. Given this simple information, calculate the following:
 - A. The percentage of butterflies in the population that are heterozygous.
 - B. The frequency of homozygous dominant individuals.
6. A rather large population of beetles have 396 red-sided individuals and 557 tan-sided individuals. Assume that red is totally recessive. Please calculate the following:
 - A. The allele frequencies of each allele.
 - B. The expected genotype frequencies.
 - C. The number of heterozygous individuals that you would predict to be in this population.
 - D. The expected phenotype frequencies.
 - E. Conditions happen to be really good this year for breeding and next year there are 1,245 beetles. Assuming that all of the Hardy-Weinberg conditions are met, how many of these would you expect to be red-sided and how many tan-sided?

Hardy Har Har Worksheet

Lingjun Ying

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

Hardy Har Har Worksheet:

Preparing for Adolescence Group Guide James Dobson, 2005-12-08 What do you say to an adolescent who's getting ready to enter those turbulent teenage years Dr James Dobson one of America's leading family psychologists knows how to speak directly and sincerely to today's adolescents about the topics that trouble them most Topics include avoiding feelings of inferiority handling peer pressure drug abuse puberty sexual development menstruation masturbation romantic love overcoming discouragement sound decision making and handling independence Getting to Know Our Awesome God Regal Books, 1996-06 **Using Access 2 with Office Companion** Roger Jennings, 1995-05 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1969 The Garden, 1897 *Sparks from the Anvil of Oppression* Robert Gregg, 1998-08-14 The richness of African American culture during the early years of the century emerges from Robert Gregg's wide reaching study of African Methodist Churches southern migrants and expanding ghettos in Philadelphia Contending that isolating these powerful forces distorts social history Gregg examines their interconnected developments to reveal a new and less monolithic picture of African American communities While some histories have charged black religious institutions with failure to help southern migrants adjust to urban life Sparks from the Anvil of Oppression cites the work of African American Methodist intellectuals and ministers to illustrate the philosophy of uplift preached and practiced in A M E churches The church and many of its established members attempted to create community and respond to the migrants depressed living and work environments Class and regional differences diversity among migrant populations and the consolidation of the ghetto undermined attempts to create a unified black community Gregg argues African Methodist churches became sites of struggle for the status and power that could not be attained outside the black community Author note Robert Gregg's Assistant Professor of History at the Richard Stockton College of New Jersey and currently a Fellow at the Shelby Cullom Davis Center for Historical Studies at Princeton University *The Garden, an illustrated weekly journal of horticulture in all its branches*, 1897 **Children's Books in Print**, 1984 *Wallace's Farmer*, 2003 *Library Automation - Introduction to Data Processing* Joseph Becker, International Business Machines Corporation. Data Processing Division, 1972 Paperbound Books in Print, 1982 *The Garden [London]*, 1897 *Excel For Dummies* Greg Harvey, 1994-02-01 Head's up this book was published in 1994 Check out Excel 2019 For Dummies for the most up to date information I imagine you landed here because you're trying to figure out Excel and know the For Dummies books are a great way to find fast answers Just so you know this edition of Excel For Dummies covers a version of the application that's been updated 10 times since we published the book For the most current info search for Excel 2019 For Dummies The good news is Excel hasn't changed so much in all those years so a lot of this book is still usable We're humbled that people still give it great reviews The better news is there's a version of Excel For Dummies for every version of the application released since then If you don't want to take your chances on a book published before there was a Google or an Amazon look for the

version of the book specific to the version of Excel you are using such as Excel 2019 All in One For Dummies **Technology**
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MacLeod, Floyd Richmond, Kimberly Curely Walls, Lee Whitmore, Dennis Mauricio, 2006 An unbiased and non brand specific
guide to selecting the appropriate music technology products for your music program based on grade level budget and your
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