

$$p^2 + 2pq + q^2 = 1$$

$$p + q = 1$$

p = frequency of the dominant allele in the population

q = frequency of the recessive allele in the population

p^2 = percentage of homozygous dominant individuals

q^2 = percentage of homozygous recessive individuals

$2pq$ = percentage of heterozygous individuals

1. 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. **0.36**

B. The frequency of the " a " allele. **0.6**

C. The frequency of the " A " allele. **0.4**

D. The frequencies of the genotypes " AA " and " Aa ." **$AA=0.16$ $Aa=0.48$**

E. The frequencies of the two possible phenotypes if " A " is completely dominant over " a ." **Dominant = 0.64**

Recessive = 0.36

2. The allele for a hitchhiker's thumb is recessive compared to straight thumbs, which are dominant. In a population of 1000 individuals, 510 show the dominant phenotype. How many individuals would you expect for each of the three possible genotypes for this trait? **$AA = 90$ $Aa = 420$ $aa = 490$**

3. Sickle-cell anemia is an interesting genetic disease. Normal homozygous individuals (SS) have normal blood cells that are easily infected with the malarial parasite. Thus, many of these individuals become very ill from the parasite and many die. Individuals homozygous for the sickle-cell trait (ss) have red blood cells that readily collapse when deoxygenated. Although malaria cannot grow in these red blood cells, individuals often die because of the genetic defect. However, individuals with the heterozygous condition (Ss) have some sickling of red blood cells, but generally not enough to cause mortality. In addition, malaria cannot survive well within these "partially defective" red blood cells. Thus, heterozygotes tend to survive better than either of the homozygous conditions. 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? **$Ss = 42\%$**

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. 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. **$q = 0.2$**

B. The frequency of the dominant allele. **$p = 0.8$**

C. The frequency of heterozygous individuals. **$2pq = 0.32$**

5. The allele for a widow's peak (hairline) is dominant over the allele for a straight hairline. In a population of 500 individuals, 25% show the recessive phenotype. How many individuals would you expect to be homozygous dominant and heterozygous for the trait? **$AA = 125$ $Aa = 250$**

Lab 8 Hardy Weinberg Answers

Stanton Braude, Bobbi S. Low



Lab 8 Hardy Weinberg Answers

Population Genetics John H. Gillespie, 2004-08-06 Publisher Description [The Evaluation of Forensic DNA Evidence](#) National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Committee on DNA Forensic Science: An Update, 1996-12-12 In 1992 the National Research Council issued DNA Technology in Forensic Science a book that documented the state of the art in this emerging field Recently this volume was brought to worldwide attention in the murder trial of celebrity O J Simpson The Evaluation of Forensic DNA Evidence reports on developments in population genetics and statistics since the original volume was published The committee comments on statements in the original book that proved controversial or that have been misapplied in the courts This volume offers recommendations for handling DNA samples performing calculations and other aspects of using DNA as a forensic tool modifying some recommendations presented in the 1992 volume The update addresses two major areas Determination of DNA profiles The committee considers how laboratory errors particularly false matches can arise how errors might be reduced and how to take into account the fact that the error rate can never be reduced to zero Interpretation of a finding that the DNA profile of a suspect or victim matches the evidence DNA The committee addresses controversies in population genetics exploring the problems that arise from the mixture of groups and subgroups in the American population and how this substructure can be accounted for in calculating frequencies This volume examines statistical issues in interpreting frequencies as probabilities including adjustments when a suspect is found through a database search The committee includes a detailed discussion of what its recommendations would mean in the courtroom with numerous case citations By resolving several remaining issues in the evaluation of this increasingly important area of forensic evidence this technical update will be important to forensic scientists and population geneticists and helpful to attorneys judges and others who need to understand DNA and the law Anyone working in laboratories and in the courts or anyone studying this issue should own this book *Biology for AP*® Courses Julianne Zedalis, John Eggebrecht, 2017-10-16 Biology for AP courses covers the scope and sequence requirements of a typical two semester Advanced Placement biology course The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens Biology for AP Courses was designed to meet and exceed the requirements of the College Board's AP Biology framework while allowing significant flexibility for instructors Each section of the book includes an introduction based on the AP curriculum and includes rich features that engage students in scientific practice and AP test preparation it also highlights careers and research opportunities in biological sciences [AP Biology](#) Deborah T. Goldberg, 2020-03-03 Barron's AP Biology With Two Practice Tests is revised to reflect all upcoming changes to the AP Biology course and the May 2020 exam You'll get the in depth content review and practice tests you need to fully prepare for the exam This edition features Two full length practice exams in the book that follow the content and

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