

Study Guide - Unit 5 AP Biology

Created by Ria Wu

Explain the connection between alleles and genetic variation and provide an example.

Genetics is the study of _____ and _____.

Traits are passed from parent to offspring through _____.

What are homologous chromosomes?

Provide three differences between asexual and sexual reproduction.

The _____rd pair of chromosomes in a _____ are the _____-determining chromosomes.

Match the correct genetic disorder to the characteristics.

- | | |
|---------------------------|---|
| 1. Trisomy 21 | A. Due to an extra X chromosome in the sex-determining chromosomes |
| 2. Turner's Syndrome | B. A high pitched "cat-like" cry |
| 3. Cri du Chat | C. People with this disorder are much more susceptible X-linked disorders |
| 4. Klinefelter's Syndrome | D. Due to an extra chromosome in the 21st chromosome pair |

How many pairs of chromosomes are in a karyotype?

List three differences between gametic and somatic cells.

The end result of meiosis is _____.

What is a tetrad?

Describe what the phase of meiosis the photos are depicting and describes what happens in that phase.



A homozygous trait means that the alleles are _____.

A heterozygous trait means that the alleles are _____.

Why did Mendel use true-breeding plants in his experiments?

Label the first pedigree. In the next pedigrees, label them as autosomal recessive, autosomal dominant, or sex-linked.



Match the correct Principles of Heredity to its descriptions.

- | | |
|----------------------------------|---|
| 1. Law of Segregation | A. This law states that the inheritance of one gene does not affect the inheritance of another gene. |
| 2. Law of Independent Assortment | B. This law states that alleles are segregated during the inheritance of alleles. A mother can only pass down one allele and a father can only pass down one allele for a specific trait. |
| 3. Law of Dominance | C. This law states that the dominant trait will cover the effects of the recessive trait. |

Which of the following statements is correct?

- | | | | |
|--|--|---|--|
| A. Mitochondrial DNA is maternally inherited | B. Chloroplast DNA is maternally inherited | C. Chloroplast and Mitochondrial DNA is maternally inherited. | D. Mitochondrial and Chloroplast DNA is paternally inherited |
|--|--|---|--|

Match the Degree of Dominance to its definition.

- | | |
|-------------------------|---|
| 1. Complete Dominance | A. The dominant and recessive traits are both fully expressed in the phenotype. |
| 2. Incomplete Dominance | B. The dominant trait completely masks the effects of the recessive allele. |
| 3. Codominant Dominance | C. The dominant trait and the recessive trait are expressed, but not fully |

X-inactivation is when one of the _____ chromosomes in the _____ cell becomes _____ and turns into a _____.

Skin Color is an example of _____.

Genetic recombination is when an offspring is a _____ or _____ phenotype from the _____.

Why are linked genes more likely to be parental types and why are unlinked genes more likely to be recombinant types?

What is the given value that Collegeboard provides for the p-value in a Goodness of Fit test?

- | | | | |
|---------|---------|---------|---------|
| A. 0.05 | B. 0.01 | C. 0.50 | D. 0.10 |
|---------|---------|---------|---------|

The _____ of two organisms can be the same, but the _____ can impact the _____ of those organisms.

What do you do when the chi-square value is less than your critical value?

- | | | | |
|---------------------------|-----------------------------------|-------------------------------|-----------------------------------|
| A. Reject null hypothesis | B. Fail to reject null hypothesis | C. Accept the null hypothesis | D. Fail to reject null hypothesis |
|---------------------------|-----------------------------------|-------------------------------|-----------------------------------|

Match the disease to its characteristics (more than one answer)

- | | |
|-----------------------|--|
| 1. Colorblindness | A. Causes an abnormal amount of hemoglobin in an afflicted cell. |
| 2. Hemophilia | B. Causes a fatal buildup of fats or lipids in the brain |
| 3. Tay Sachs | C. An inability to clot blood properly |
| 4. Sickle Cell Anemia | D. An inability to see colors properly |
| | E. Caused by a mutation in the HEXA gene |
| | F. Caused by a mutation in the HBB gene |

What was the answer to the example problem involving the multiplication rule?

The addition rule finds the probability of two _____

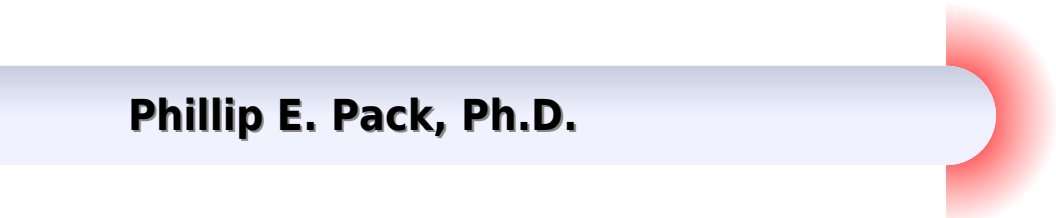
What was the answer to the example problem involving the addition rule?

_____ events occurring.

The multiplication rule finds the probability of two _____ events occurring.

Ap Biology Study Guide Answers

Phillip E. Pack, Ph.D.



Ap Biology Study Guide Answers:

AP Biology Study Guide Sundar Nathan,2009-11 Sundar Nathan received a Bachelor s degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test *AP BIOLOGY* NARAYAN CHANGDER,2022-12-19 Note Anyone can request the PDF version of this practice set workbook by emailing me at cbsenet4u gmail com I will send you a PDF version of this workbook This book has been designed for candidates preparing for various competitive examinations It contains many objective questions specifically designed for different exams Answer keys are provided at the end of each page It will undoubtedly serve as the best preparation material for aspirants This book is an engaging quiz eBook for all and offers something for everyone This book will satisfy the curiosity of most students while also challenging their trivia skills and introducing them to new information Use this invaluable book to test your subject matter expertise Multiple choice exams are a common assessment method that all prospective candidates must be familiar with in today s academic environment Although the majority of students are accustomed to this MCQ format many are not well versed in it To achieve success in MCQ tests quizzes and trivia challenges one requires test taking techniques and skills in addition to subject knowledge It also provides you with the skills and information you need to achieve a good score in challenging tests or competitive examinations Whether you have studied the subject on your own read for pleasure or completed coursework it will assess your knowledge and prepare you for competitive exams quizzes trivia and more *Princeton Review AP Biology Premium Prep, 28th Edition* The Princeton Review,2025-08-05 PREMIUM PRACTICE FOR A PERFECT 5 WITH THE MOST PRACTICE ON THE MARKET Ace the newly digital AP Biology Exam with The Princeton Review s comprehensive study guide Includes 6 full length practice exams more than any other major competitor timed online practice and thorough content reviews Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need for a High Score Updated to address the new digital exam Comprehensive content review for all test topics Online digital flashcards to review core content Study plans a handy list of key terms and concepts and more via your online Student Tools Premium Practice for AP Excellence 6 full length practice tests 3 in the book 3 online with detailed answer explanations Online tests provided as both digital versions with timer option to simulate exam experience online and as downloadable PDFs with interactive elements mimicking the exam interface Practice drills in each content review chapter plus end of chapter key term lists **Cracking the AP Biology Exam** Kim Magloire,Princeton Review (Firm),2004 This updated series by Princeton Review helps students pass the challenging Advance Placement Test with targeted study for each exam of the series **AP Physics Test Prep 1&2 Review--Exambusters Flash Cards** AP Exambusters,2017-12-01

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