

Probability and Inheritance

Lab 34

Background

In 1865 Gregor Mendel, an Austrian monk, published the results of his study of inheritance in garden peas. Although Mendel did not understand the mechanisms of inheritance, his work became the basis for the modern study of genetics. From his studies on the inheritance of certain traits in pea plants, Mendel formulated three laws of inheritance: the law of dominance, the law of segregation, and the law of independent assortment.

Mendel thought that every trait was controlled by a pair of factors, which are now called genes. The law of dominance states that one gene, the dominant gene, prevents the appearance of the trait controlled by the other gene, the recessive gene. The law of segregation states that during gamete (egg and sperm) formation, the pair of genes for a trait separate, so that each gamete has only one of the genes for the trait. The law of independent assortment states that as gametes are being formed, the genes for various traits separate independently of one another.

In this activity you will learn some principles of probability. You will use these principles and Mendel's laws to predict the inheritance of traits.

Objectives

In this activity you will:

1. Predict the probability of the occurrence of a single event.
2. Predict the probability of two independent events occurring at the same time.
3. Apply Mendel's laws to predict the occurrence of certain traits in the offspring of parents exhibiting particular traits.

Materials

two pennies
masking tape

Procedures and Observations

PART I. OCCURRENCE OF A SINGLE EVENT _____

1. Toss a penny 20 times. Have your partner count how many times it lands heads up and how many times it lands tails up.
 - a. Write the totals under the *Observed* column for 20 trials in Table 1.

The law of probability states that when a procedure can result in two equally likely outcomes (in this case, heads or tails), the probability of either outcome occurring is $1/2$, or 50%.

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**Galton Laboratory for National
Eugenics**



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Part - Anatomy & Physiology Laboratory Manual - E-Book Kevin T Patton, PhD, 2014-12-02 Effectively master various physiology dissection identification and anatomic explorations in the laboratory setting with the Anatomy Physiology Laboratory Manual 9th Edition This practical full color lab manual contains 55 different A P lab exercises that cover labeling anatomy identification dissection physiological experiments computerized experiments and more The manual also includes safety tips a comprehensive instruction and preparation guide for the laboratory and tear out worksheets for each of the 55 exercises In addition 8 e Lab modules offer authentic 3D lab experiences online for virtual lab instruction 8 interactive eLabs further your laboratory experience in the digital environment Complete list of materials for each exercise offers a thorough checklist for planning and setting up laboratory activities Over 250 illustrations depict proper procedures and common histology slides Step by step guidance for dissection of anatomical models and fresh or preserved specimens with accompanying illustrations helps you become acclimated to the lab environment Physiology experiments centering on functional processes of the human body offer immediate and exciting examples of physiological concepts Easy to evaluate tear out lab reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs they have participated in Reader friendly spiral binding allows for hands free viewing in the lab setting Labeling and coloring exercises provide opportunities to identify critical structures examined in the lab and lectures Brief learning aids such as Hints Landmark Characteristics and Safety First are found throughout the manual to help reinforce and apply knowledge of anatomy and function Modern anatomical imaging techniques such as MRIs CTs and ultrasonography are introduced where appropriate Boxed hints and safety tips provide you with special insights on handling specimens using equipment and managing lab activities UPDATED Fresh activities keep the manual current and ensure a strong connection with the new edition of the A P textbook NEW Updated illustrations and design offer a fresh and upbeat look for the full color design and learning objectives NEW Expanded and improved student resources on the Evolve companion website include a new version of the Body Spectrum electronic coloring book

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Henry's Clinical Diagnosis and Management by Laboratory Methods E-Book Richard A. McPherson, Matthew R. Pincus, 2017-04-05 Recognized as the definitive reference in laboratory medicine since 1908 Henry's Clinical Diagnosis continues to offer state of the art guidance on the scientific foundation and clinical application of today's complete range of laboratory tests Employing a multidisciplinary approach it presents the newest information available in the field including new developments in technologies and the automation platforms on which measurements are performed Provides guidance on error detection correction and prevention as well as cost effective test selection Features a full color layout illustrations and visual aids and an organization based on organ system Features the latest knowledge on cutting edge technologies of molecular diagnostics and proteomics Includes a wealth of information on the exciting subject of omics these extraordinarily complex measurements reflect important changes in the body and have the potential to predict the onset of diseases such as diabetes mellitus Coverage of today's hottest topics includes advances in transfusion medicine and organ transplantation molecular diagnostics in microbiology and infectious diseases point of care testing pharmacogenomics and the microbiome Toxicology and Therapeutic Drug Monitoring chapter discusses the necessity of testing for therapeutic drugs that are more frequently being abused by users

Henry's Clinical Diagnosis and Management by Laboratory Methods: First South Asia Edition E-book Richard A. McPherson, 2016-08-31 To interpret the laboratory results To distinguish the normal from the abnormal and to understand the merits and demerits of the assays under study The book attempts to train a laboratory medicine student to achieve sound knowledge of analytical methods and quality control practices to interpret the laboratory results to distinguish the normal from the abnormal and to understand the merits and demerits of the assays under study

Anatomy & Physiology Laboratory Manual Kevin T. Patton, 2007 It's an ideal companion for Thibodeau and Patton's Anatomy and Physiology Sixth Edition as well as any standard anatomy and physiology textbook

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Eugenics Laboratory Lecture Series University College, London. Francis Galton Laboratory for Eugenics, 1909

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Henry's Clinical Diagnosis and Management by Laboratory Methods John Bernard

Henry, 2007 Rev ed of Clinical diagnosis and management by laboratory methods edited by John Bernard Henry 20th ed c2001 *Surgical Critical Care Therapy* Ali Salim, Carlos Brown, Kenji Inaba, Matthew J. Martin, 2018-05-03 This text provides a comprehensive state of the art review of this field and will serve as a valuable resource for clinicians surgeons and researchers with an interest in surgical critical care The book reviews up to date data regarding the management of common problems that arise in the Surgical Intensive Care Unit The protocols care bundles guidelines and checklists that have been shown to improve process measures and in certain circumstances are discussed in detail The text also discusses several well designed randomized prospective trials conducted recently that have altered the way we care for surgical patients with traumatic brain injury hemorrhagic shock acute respiratory distress syndrome and sepsis This book provides the practicing physician with a clinically oriented practical approach to handle basic and complex issues in the Surgical Intensive Care Unit This text will serve as a very useful resource for physicians dealing with critically ill surgical patients It provides a concise yet comprehensive summary of the current status of the field that will help guide patient management and stimulate investigative efforts All chapters are written by experts in their fields and include the most up to date scientific and clinical information This text will become an invaluable resource for all graduating fellows and practicing physicians who are taking the surgical critical care board examinations

Unveiling the Magic of Words: A Review of "**Lab 34 Probability And Inheritance**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Lab 34 Probability And Inheritance**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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