

Genetics Packet ~ Punnett Square Practice **KEY**Basics

1. The following pairs of letters represent alleles of different genotypes. Indicate which pairs are Heterozygous and which are Homozygous. Also indicate whether the homozygous pairs are Dominant or Recessive (*note heterozygous pairs don't need either dominant nor recessive labels.)

A. BB = Homozygous dominantD. gg = Homozygous recessiveB. Bb = HeterozygousE. aa = Homozygous recessiveC. Gg = HeterozygousF. Ee = Heterozygous

2. In humans, brown eye color (B), is dominant over blue eye color (b). What are the phenotypes of the following genotypes?

A. Bb = Brown eyesB. BB = Brown eyesC. bb = blue eyesMonohybrid Crosses with Complete Dominance

3. A heterozygous smooth pea pod plant is crossed with a wrinkled pea pod plant. There are two alleles for pea pod, smooth and wrinkled. Use R for seed texture. Predict the offspring from this cross.

a. What is the genotype of the parents? Rr x rr

b. Set up a Punnett square with possible gametes.

	R	r
r	Rr	rr
r	Rr	rr

c. Fill in the Punnett square for the resultant offspring.

d. What is the predicted genotypic ratio for the offspring? 1Rr : 1rre. What is the predicted phenotypic ratio for the offspring? 1 smooth : 1 wrinkledf. If this cross produced 50 seeds how many would you predict to have a wrinkled pod? 25

4. In humans, achondroplasia "dwarfism" (D) is dominant over normal (d).

A homozygous dominant (DD) person dies before the age of one.

A heterozygous (Dd) person is dwarfed. A homozygous recessive individual is normal.

A heterozygous dwarf man marries a heterozygous dwarf woman...

	D	d
D	DD	Dd
d	Dd	dd

a. What is the probability of having a normal child? 1/3... 33.3%b. What is the probability that the next child will also be normal? 1/3... 33.3%

each child is a new shot at the same punnett square!

c. What is the probability of having a child that is a dwarf? 2/3... 66.6%d. What is the probability of having a child that dies at one from this disorder? 25%

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AW Chickering



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The American Biology Teacher ,2003 **Resources in Education** ,1997-07 **International Conference of the Learning Sciences** Barry J. Fishman,Samuel F. O'Connor-Divelbiss,2013-04-15 The field of the learning sciences is concerned with educational research from the dual perspectives of human cognition and computing technologies and the application of this research in three integrated areas Design Design of learning and teaching environments tools or media including innovative curricula multimedia artificial intelligence telecommunications technologies visualization modeling and design theories and activity structures for supporting learning and teaching Cognition Models of the structures and processes of learning and teaching by which knowledge skills and understanding are developed including the psychological foundations of the field learning in content areas professional learning and the study of learning enabled by tools or social structures Social Context The social organizational and cultural dynamics of learning and teaching across the range of formal and informal settings including schools museums homes families and professional settings Investigations in the learning sciences approach these issues from an interdisciplinary stance combining the traditional disciplines of computer science cognitive science and education This book documents the proceedings of the Fourth International Conference on the Learning Sciences ICLS 2000 which brought together experts from academia industry and education to discuss the application of theoretical and empirical knowledge from learning sciences research to practice in K 12 or higher education corporate training and learning in the home or other informal settings *Introduction to Quantitative Methods in Business* Bharat Kolluri,Michael J. Panik,Rao N. Singamsetti,2016-07-07 A well balanced and accessible introduction to the elementary quantitative methods and Microsoft Office Excel applications used to guide business decision making Featuring quantitative techniques essential for modeling modern business situations Introduction to Quantitative Methods in Business With Applications Using Microsoft Office Excel provides guidance to assessing real world data sets using Excel The book presents a balanced approach to the mathematical tools and techniques with applications used in the areas of business finance economics marketing and operations The authors begin by establishing a solid foundation of basic mathematics and statistics before moving on to more advanced concepts The first part of the book starts by developing basic quantitative techniques such as arithmetic operations functions and graphs and elementary differentiations rates of change and integration After a review of these techniques the second part details both linear and nonlinear models of business activity Extensively classroom tested Introduction to Quantitative Methods in Business With Applications Using Microsoft Office Excel also includes Numerous examples and practice problems that emphasize real world business quantitative techniques and applications Excel based computer software routines that explore calculations for an assortment of tasks including graphing formula usage solving equations and data analysis End of chapter sections detailing the Excel applications and techniques used to address data and solutions using large data sets A companion website that includes chapter summaries Excel data

sets sample exams and quizzes lecture slides and an Instructors Solutions Manual Introduction to Quantitative Methods in Business With Applications Using Microsoft Office Excel is an excellent textbook for undergraduate level courses on quantitative methods in business economics finance marketing operations and statistics The book is also an ideal reference for readers with little or no quantitative background who require a better understanding of basic mathematical and statistical concepts used in economics and business Bharat Kolluri Ph D is Professor of Economics in the Department of Economics Finance and Insurance at the University of Hartford A member of the American Economics Association his research interests include econometrics business statistics quantitative decision making applied macroeconomics applied microeconomics and corporate finance Michael J Panik Ph D is Professor Emeritus in the Department of Economics Finance and Insurance at the University of Hartford He has served as a consultant to the Connecticut Department of Motor Vehicles as well as to a variety of health care organizations In addition Dr Panik is the author of numerous books including Growth Curve Modeling Theory and Applications and Statistical Inference A Short Course both published by Wiley Rao N Singamsetti Ph D is Associate Professor in the Department of Economics Finance and Insurance at the University of Hartford A member of the American Economics Association his research interests include the status of war on poverty in the United States since the 1960s and forecasting foreign exchange rates using econometric methods

Decision: Donation ,2004 **Resources in Education** ,1997 *Biology a Search for Order* in Christian Libery Press,Test Packet,2005-01-14 *Biology A Search For Order* In Complexity is a classic text originally developed by the Creation Research Society now updated and available for your student in a full color edition beautifully photographed and illustrated This hardbound text contains a thorough presentation of biological concepts and is scientifically accurate and true to six day young earth creationism Grades 10 12 **Secondary Starters and Plenaries** Kate Brown,2013-04-14 Starters and plenaries are now established elements of all good lesson planning A good starter gets a class engaged right from the word go challenges and motivates students and sets a positive tone for the rest of the lesson A good plenary allows students to focus on the key objectives of the lesson and to reflect on the progress they have made *Deconstructing Digital Natives* Michael Thomas,2011-04-19 Contributors produce an international overview of developments in digital literacy among young learners offering innovative paths between traditional narratives that offer only complete acceptance or total dismissal of digital natives *Research in Education* ,1973

Science and Technology:The Threat and the Promise , **Christian Home Educators' Curriculum Manual** Cathy Duffy,1992 *Cornell University Resource Guide for Agricultural Education* Cornell Educational Resources Program,1998 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1964 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June Conceptual Change Strategies in Teaching Genetics Laura Elizabeth Batzli,1999 *Federation Proceedings* Federation of American Societies for Experimental Biology,1973 Vols for 1942 include proceedings of the American Physiological Society Journal of Biological

Education ,1993 **Clinical Pediatric Physical Therapy** Katherine T. Ratliffe,1998 The first book ever published specifically on pediatrics for the physical therapist assistant takes an integrated approach It focuses on clinical skills and strategies as well as encompassing educational and family environments where children live work and play Special features include key terms more than 300 illustrations practice exercises key terms and questions a glossary community resources boxes case studies and an instructors manual The only book available covering pediatrics for the Physical Therapy Team Covers such hot topics as importance of play in therapy handling and positioning and behavioral supports Nearly 400 high quality photographs and line drawings show techniques postures and disorders to illustrate content in the text In depth case studies provide students with hands on experience in clinical practice Special boxes throughout each chapter give the reader tips and suggestions to use in therapy Questions to Ponder sections at the end of each chapter explore ethical issues health care reform issues communication issues budget issues and more Features practice exercises annotated bibliographies and reference lists for every chapter **Health and Medical Year Book 1992** P. F. Collier,P.F. Collier, Inc,1992-05
Agrindex ,1977

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