

# 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 dominant

D. gg = Homozygous recessive

B. Bb = Heterozygous

E. aa = Homozygous recessive

C. Gg = Heterozygous

F. 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 eyes

B. BB = Brown eyes

C. bb = blue eyes

## Monohybrid 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 : 1rr

e. What is the predicted phenotypic ratio for the offspring? 1 smooth : 1 wrinkled

f. 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	<del>DD</del>	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%

# Genetics Packet Answers

**JG Myers**



## **Genetics Packet Answers:**

**Brain-Powered Weight Loss** Eliza Kingsford,2017-01-03 Losing weight and successfully maintaining it over the long term is not as much about what you put in your stomach it s more about what s happening in the brain In Brain Powered Weight Loss psychotherapist and weight management expert Eliza Kingsford shows that more than 90 percent of people who go on diet programs even healthy ones fail or eventually regain because they have a dysfunctional relationship with food Changing this relationship by changing the way you think about and behave around food is what it takes to permanently achieve weight loss success Kingsford s 11 step first of its kind program enlists dozens of mind altering and behavior changing exercises and techniques that shows you how to Identify and reverse the conscious and unconscious thinking errors and food triggers that lead to the behaviors that drive our food decisions Let go of the mindset of going on or off a diet in favor of a conscious quest to pursue a lifestyle of healthy eating and everyday activity one that can last forever Successfully use what Kingsford calls dealing skills to outsmart high risk situations tame stressful times and prevent an eating slip from leading to a setback or all out binge Find out if you have what emerging research shows is an addiction to certain high fat and sugar added processed foods that can be as powerful as addiction to cigarettes and narcotics Design a personal healthy eating program built on Kingsford s 10 Principles of Healthy Eating

**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 [Journal of Genetics](#) ,1915 [Genetics](#) George J. Brewer,Charles F. Sing,1983

**Probability & Inheritance Gr. 7-10** John Collins, This resource is designed to support and extend any mathematics program by providing activities and worksheets that can be used for independent or group practice Students are introduced to the concepts of probability and inheritance In the probability section they will become familiar with the laws of chance and learn to make choices by predicting outcomes The inheritance section promotes decision making skills and develops ability in graphing spatial concepts and scale 64 pages

**The Philosophy of Historiography** John Lange,2014-04-01 A philosophical examination of the study of history from its logic and semantics to its metaphysical and epistemological implications This book is intended for the highly intelligent reader who is interested in considering the difficulties problems and challenges of understanding and writing about the human past It is popularly enough written hopefully to be a joy to read and scholarly enough to be seriously instructive The book has two major purposes first to give a reader an extensive detailed overview of the field as it currently exists and second to considerably enlarge the field itself as it is the first book in the area to consider not only the epistemology of the field but in detail its logic and semantics its metaphysics its axiology and its aesthetics [Educators Grade Guide to Free Teaching Aids](#) ,1993

**The Mysterious World of the Human Genome** Frank Ryan,2016-02-16 The human genome is indeed a mysterious world but as this fascinating book shows its vital secrets are now being uncovered The

latest studies are revealing exciting new discoveries such as how the DNA and related chemical compounds in our cells work together to direct the processes of life Scientists are not only unraveling how life evolved in the ancient past but are also finding the keys to creating a healthier future How does the minuscule chemical cluster in each of our 100 trillion cells accomplish the amazing feat of creating and maintaining our bodies Frank Ryan a physician and an evolutionary biologist describes the complex ways in which the genome operates as a holistic system and not solely through genes coding for proteins the building blocks of life Also involved are elaborate switching mechanisms that regulate and control portions of our DNA as well as the interplay of retroviruses and bacteria This groundbreaking book explains that we are on the cusp of an amazing era of disease treatment and eradication *Model Awareness* Christine May Compton,2005 **The NIH Record** ,1994 Carolina Science and Math Carolina Biological Supply Company,2003 Science, Style and the Study of Community Structure Carl P. Lipo,2001 In 1951 the Lower Mississippi River Valley Survey generated a large assemblage of ceramic material relating to prehistoric populations in the area **Style and Function** Teresa D. Hurt,Gordon Rakita,2001 This text presents theoretical background and case studies that demonstrate how evolutionary definitions of archaeological style and function may be applied to the prehistoric record **Environmental Evolution** Lynn Margulis,Clifford Matthews,Aaron Haselton,2000 Fifteen distinguished scientists discuss the effects of life past and present on planet Earth Truth and Consequences of the Genetic Revolution: Animal pharm : Old MacDonald had a lab California. Legislature. Senate. Select Committee on Genetics and Public Policy,1996 Truth and Consequences of the Genetic Revolution: Human genetic research California. Legislature. Senate. Select Committee on Genetics and Public Policy,1996 *Cancer Prevention, Detection, and Control* Kathleen Jennings-Dozier,Suzanne M. Mahon,2002 This comprehensive text serves as a reference to the latest development in the field of cancer detection and prevention Issues covered range from how diet affects incidence of the disease to the nurse s role in advancing the cancer control agenda This comprehensive educational resource is perfect for those in undergraduate and graduate programs yet also serves as a practical guide in clinical settings (Mis)Understanding Families Monica Miller Marsh,Tammy Turner-Vorbeck,2009-12-10 This practical resource will help educators to identify address and meet the needs of the diverse families in today s classrooms It is the first book to critically examine how families are represented in the media schools and other institutions and apply that information to build effective home school partnerships The authors examine how different relationships between families and teachers are defined by discourses that circulate through formal and informal curricula They explore how families and educators can collectively reconceptualize these conversations to create positive educational experiences for children Discussion questions are included in each chapter so that readers can examine their working relationships with the families of their students Microbial Biology Eugene Rosenberg,Irun R. Cohen,1983 **Current Index to Journals in Education** ,1982

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