

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? 1 Rr : 1 rre. 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%

Answer Key World Of Genetics

David B. Resnik



Answer Key World Of Genetics:

Fault Lines Jonathan Jansen, Cyrill Walters, 2020-03-31 What is the link if any between race and disease How did the term baster as mixed race come to be mistranslated from incest in the Hebrew Bible What are the roots of racial thinking in South African universities How does music fall on the ear of black and white listeners Are new developments in genetics simply a backdoor for the return of eugenics For the first time leading scholars in South Africa from different disciplines take on some of these difficult questions about race science and society in the aftermath of apartheid This book offers an important foundation for students pursuing a broader education than what a typical degree provides and a must read resource for every citizen concerned about the lingering effects of race and racism in South Africa and other parts of the world

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Owning the Genome David B. Resnik, 2012-02-01 DNA patenting has emerged as a hot topic in science policy and bioethics as private companies and government agencies spend billions of dollars on genetic research and development in a race to identify sequence and analyze DNA from human animal and plant species David B Resnik s Owning the Genome explores the ethical social philosophical theological and policy issues surrounding DNA patenting and develops a comprehensive approach to the topic Resnik considers arguments for and against DNA patenting and concludes that only a patent on a whole human genome would be inherently immoral while the morality of other DNA patents depends on their consequences for science medicine agriculture industry and society He also stresses the importance of government regulations and policies in order to minimize the harmful effects of patenting while promoting the beneficial ones

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A Guide to Genetic Counseling Wendy R. Uhlmann, Jane L. Schuette, Beverly M.

Yashar, 2011-09-20 The first book devoted exclusively to the principles and practice of genetic counseling now in a new edition First published in 1998 A Guide to Genetic Counseling quickly became a bestselling and widely recognized text used nationally and internationally in genetic counseling training programs Now in its eagerly anticipated Second Edition it provides a thoroughly revised and comprehensive overview of genetic counseling focusing on the components theoretical framework and unique approach to patient care that are the basis of this profession The book defines the core competencies and covers the genetic counseling process from case initiation to completion in addition to addressing global professional issues with an emphasis on describing fundamental principles and practices Chapters are written by leaders in the field of genetic counseling and are organized to facilitate academic instruction and skill attainment They provide the most up to date coverage of The history and practice of genetic counseling Family history Interviewing Case preparation and management Psychosocial counseling Patient education Risk communication and decision making Medical genetics evaluation Understanding genetic testing Medical documentation Multicultural counseling Ethical and legal issues Student supervision Genetic counseling research Professional development Genetics education and outreach Evolving roles and expanding opportunities Case examples A Guide to Genetic Counseling Second Edition belongs on the syllabi of all medical and human genetics and genetic counseling training programs It is an indispensable reference for both students and healthcare professionals working with patients who have or are at risk for genetic conditions

Genetics Daniel L. Hartl, Elizabeth W.

Jones, 2009 This handbook covers all dimensions of breast cancer prevention diagnosis and treatment for the non oncologist A special emphasis is placed on the long term survivor

Principles of Plant Genetics and Breeding George

Acquaah, 2020-12-14 The revised edition of the bestselling textbook covering both classical and molecular plant breeding Principles of Plant Genetics and Breeding integrates theory and practice to provide an insightful examination of the fundamental principles and advanced techniques of modern plant breeding Combining both classical and molecular tools this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and plants particularly in response to the increasing demands to of growing populations Illustrated chapters cover a wide range of topics including plant reproductive systems germplasm for breeding molecular breeding the common objectives of plant breeders marketing and societal issues and more Now in its third edition this essential textbook contains extensively revised

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New Genetics, New Identities Paul Atkinson, Peter Glasner, Helen Greenslade, 2006-12-15 Genetic advocacy groups science and biovalue creating political economies of hope Carlos Novas Patients as public in ethics debates interpreting the role of patient organizations in democracy Annemiek Nelis Gerard de Vries and Rob Hagendijk From scraps and fragments to whole organisms molecular biology clinical research and post genomic bodies Susan E Kelly Fashioning flesh inclusion exclusivity and the potential of genomics Fiona O'Neill Mapping origins race and relatedness in population genetics and genetic genealogy Catherine Nash

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