

Genetics Problems Packet

Complete each of the problems on a separate piece of paper. Be sure to include:

- A. a key showing the genotypes and phenotypes
- B. write the parents cross in words
- C. write the parents genotype
- D. punnett square
- E. genotypic ratio
- F. phenotypic ratio
- G. Answer any other questions that are asked relating to the problem.

Keep in mind that some problems may require more than one cross!!!

Monohybrid Problems:

1. Cross a heterozygous pea plant, which bears its flowers axially with a homozygous pea plant, which bears its flowers terminally.
2. Cross a heterozygous pea plant with smooth pods with a homozygous constricted pod plant.
3. Cross a homozygous yellow-seeded pea plant with a homozygous green-seeded pea plant.
4. Short hair is dominant over long hair in guinea pigs. Cross a homozygous short-haired female guinea pig with a long-haired male. If their offspring were to mate and produce an F₂ generation, what genotypic and phenotypic offspring will result and in what ratio.
5. Two brown mice were mated and twelve offspring resulted. Nine of the offspring were brown, and three were white. How can this be explained?
6. Starchy grain is dominant over sugary grain in corn. If a cross between these two types of corn was performed and 58 of the offspring were sugary, how many would you expect to be starchy?
7. Use your imagination. A pink circus elephant and a green circus elephant were mated and only pink baby elephants were born. If two of these offspring were mated and eventually produced a total of 64 baby elephants, how many of these should be pink and how many should be green?
8. Short hair is dominant over long hair in guinea pigs. A short-haired guinea pig (one of its parents had long hair) was mated with a long-haired guinea pig. If blindfolded, you selected one of the guinea pigs from the cage, what is the chance that you would get a long-haired animal?

Genetics Problems Packet

Bartha Maria Knoppers



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Handbook of Research on Natural Computing for Optimization Problems Mandal, Jyotsna Kumar, Mukhopadhyay, Somnath, Pal, Tandra, 2016-05-25 Nature inspired computation is an interdisciplinary topic area that connects the natural sciences to computer science Since natural computing is utilized in a variety of disciplines it is imperative to research its capabilities in solving optimization issues The Handbook of Research on Natural Computing for Optimization Problems discusses nascent optimization procedures in nature inspired computation and the innovative tools and techniques being utilized in the field Highlighting empirical research and best practices concerning various optimization issues this publication is a comprehensive reference for researchers academicians students scientists and technology developers interested in a multidisciplinary perspective on natural computational systems

Genetics and Global Public Health Simon M. Dyson, Karl Atkin, 2014-06-11 Sick cell and thalassaemia are among the world's most common genetic conditions They are especially common in Africa Brazil the Caribbean the Middle East and Asia They affect all ethnic groups but they particularly impact on minority ethnic groups in North America Europe and Australasia Much research has focused on clinical laboratory and genetic studies of these conditions Through a wide ranging selection of readings based on social scientific research into sick cell and thalassaemia this book seeks to redress this imbalance This is important as through an examination of the different social economic and cultural contexts of the lives of people living with sick cell or thalassaemia the contributors demonstrate that people are more than the sum of their genes and that their life experiences are rarely derived solely from the clinical severity of their condition but depend on the social context of their lives Genetics and Global Public Health presents a new concluding chapter which highlights the critical nature of social science research for sick cell and thalassaemia communities providing key insights into the social contexts of human behaviour and analysing how societal arrangements could change to assist people living with either condition It will be of great interest to postgraduate and research students as well as professionals working in the field of public health This book was originally published as a special issue of the journal Ethnicity and Health

Proceedings of the Inter-state Post Graduate Medical Assembly of North America... Inter-state post graduate medical association of North America, 1927

Populations and Genetics Bartha Maria Knoppers, 2003-01-01 Thirty five papers from the third International DNA Sampling Conference held in Montreal in September 2002 provide a critical discussion of the socio ethical and legal issues surrounding DNA sampling in communities and populations around the globe Contributors address topics related to biobanks and databases community engagement confidentiality

Readings in Society, Ethics and the Life Sciences Institute of Society, Ethics, and the Life Sciences, 1978

Resources in Education, 1999-04

Proceedings Interstate Postgraduate Medical Association of North America, 1927

Human Genetics Ruth Porter, Maeve O'Connor, 2009-09-16 The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia in which groups of leading scientists from a range of topics

across biology chemistry and medicine assembled to present papers and discuss results The Novartis Foundation originally known as the Ciba Foundation is well known to scientists and clinicians around the world *Entrepreneurship, Small Business and Venture Capital* Richard Schwindt,1990 What universities teach and the readings they assign for these subjects

Food, Inc. Peter Pringle,2010-05-11 For most people the global war over genetically modified foods is a distant and confusing one The battles are conducted in the mystifying language of genetics A handful of corporate life science giants such as Monsanto are pitted against a worldwide network of anticorporate ecowarriors like Greenpeace And yet the possible benefits of biotech agriculture to our food supply are too vital to be left to either partisan The companies claim to be leading a new agricultural revolution that will save the world with crops modified to survive frost drought pests and plague The greens warn that playing God with plant genes is dangerous It could create new allergies upset ecosystems destroy biodiversity and produce uncontrollable mutations Worst of all the antibiotech forces say a single food conglomerate could end up telling us what to eat In *Food Inc* acclaimed journalist Peter Pringle shows how both sides in this overheated conflict have made false promises engaged in propaganda science and indulged in fear mongering In this urgent dispatch he suggests that a fertile partnership between consumers corporations scientists and farmers could still allow the biotech harvest to reach its full potential in helping to overcome the problem of world hunger providing nutritious food and keeping the environment healthy

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