

Name: _____

Genetics Practice Problems (Remote Edition)



1. For each genotype below, indicate whether it is heterozygous (**He**) or homozygous (**Ho**)

AA **Ho** Ee **He** Bb **He** ff **Ho**
Pp **He** gg **Ho** Dd **He** HH **Ho**

2. For each of the **genotypes** below determine what **phenotypes** would be possible.

Purple flowers are dominant to white

PP **Purple**
Pp **Purple**
pp **White**

Brown eyes are dominant to blue

BB **Brown**
Bb **Brown**
bb **Blue**

3. For each **phenotype** below, list the **genotypes** (remember to use the letter of the dominant trait)

Straight hair is dominant to curly

SS **straight**
Ss **straight**
ss **curly**

Tail spikes are dominant to plain tails

SS **spikes**
Ss **spikes**
ss **plain**



4. Complete the Punnett squares for each of the crosses listed below.

Tall (T) plants are dominant to short (t)

Tt x tt

	<u>T</u>	<u>t</u>
<u>t</u>	Tt	tt
<u>t</u>	Tt	tt

What percentage of the offspring are tall? **50%** short? **50%**

Tt x Tt

	<u>T</u>	<u>t</u>
<u>T</u>	TT	Tt
<u>t</u>	Tt	tt

What percentage of the offspring are tall? **75%** short? **25%**



5. A **homozygous tall** plant is crossed with a **short** plant.

Genetics Problems With Answers

AN Whitehead



Genetics Problems With Answers:

Solving Problems in Genetics Richard Kowles, 2013-12-01 The principle objective of this book is to help undergraduate students in the analysis of genetic problems Many students have a great deal of difficulty doing genetic analysis and the book will be useful regardless of which genetics text is being used Most texts provide some kinds of problems and answers few if any however show the students how to actually solve the problem Often the student has no idea how the answer was derived This work emphasizes solutions not just answers The strategy is to provide the student with the essential steps and the reasoning involved in conducting the analysis Throughout the book an attempt is made to present a balanced account of genetics Topics therefore center about Mendelian cytogenetic molecular quantitative and population genetics with a few more specialized areas Whenever possible the student is provided with the appropriate basic statistics necessary to make some of the analyses The book also builds on itself that is analytical methods learned in early parts of the book are subsequently revisited and used for later analyses A deliberate attempt is made to make complex concepts simple and sometimes to point out that apparently simple concepts are sometimes less so on further investigation Any student taking a genetics course will find this book an invaluable aid to achieving a good understanding of genetic principles and practice

Student Solutions Manual and Supplemental Problems to Accompany Genetics: Analysis of Genes and Genomes Daniel Hartl, Maryellen Ruvolo, 2011-10-13 This must have student resource contains complete solutions to all end of chapter problems in *Genetics Analysis of Genes and Genomes* Eighth Edition by Daniel L Hartl and Maryellen Ruvolo as well as a wealth of supplemental problems and exercises with full solutions a complete chapter summary and keyword section The supplemental problems provided in this manual are designed as learning opportunities rather than exercises to be completed by rote They are organized into chapters that parallel those of the main text and all problems can be solved through application of the concepts and principles explained in *Genetics* Eighth Edition **The genetics problem solver**, The Problem Solvers are an exceptional series of books that are thorough unusually well organized and structured in such a way that they can be used with any text No other series of study and solution guides has come close to the Problem Solvers in usefulness quality and effectiveness Educators consider the Problem Solvers the most effective series of study aids on the market Students regard them as most helpful for their school work and studies With these books students do not merely memorize the subject matter they really get to understand it Each Problem Solver is over 1 000 pages yet each saves hours of time in studying and finding solutions to problems These solutions are worked out in step by step detail thoroughly and clearly Each book is fully indexed for locating specific problems rapidly Thorough coverage is given to cell mechanics chromosomes Mendelian genetics sex determination mutations and alleles bacterial and viral genetics biochemistry immunogenetics genetic engineering probability and statistics **Essential Genetics** Daniel L. Hartl, Elizabeth W. Jones, 2002 bull bull *Genetics* bull *Principles of Genetics* bull *Introduction to Genetics* *Genetics* Benjamin A. Pierce, 2008

Third edition of Genetics A conceptual Approach includes thorough streamlining of the entire text to focus on core concepts

Genetics Daniel Hartl, Maryellen Ruvolo, 2012 This textbook gives an introduction to genetics and genomics at the college level It contains a chapter on human genetic evolution Other chapters treat transmission genetics molecular genetics and evolutionary genetics and provide an understanding of the basic process of gene transmission mutation expression and regulation

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

Genetics? No Problem! Kevin O'Dell, 2017-03-20 Shortlisted for the HE Bioscience Teacher of the Year Award 2019 Kevin O Dell Author of Genetics No Problem The analysis and interpretation of data is fundamental to the subject of genetics and forms a compulsory part of the undergraduate genetics curriculum Indeed the key skills that a genetics student requires are an ability to design and understand experimental strategies and to use problem solving skills to interpret experimental results and data Genetics No Problem provides students with a graded set of problems that aim to enthuse challenge and entertain the reader The book is divided into three sections introductory intermediate and advanced each with 10 problems For first level students there will be short genetics problems embedded in a wide range of scenarios such as murder mysteries As the book progresses the stories will get longer and the science will get progressively more complex to challenge final year students and enable the reader to identify genetic disease in obscure organisms as well as designing and testing treatments and cures Genetics No Problem Takes a unique innovative approach that provides students with a set of graded problems designed to develop both their skills and their ability to tackle problems with confidence Includes problems embedded in a narrative written in an interesting informative and entertaining style by an Author with a proven track record in teaching research and communication Is well illustrated in full colour throughout The book will prove invaluable to all students of genetics across a range of disciplines needing to get to grips with the analysis and interpretation of data that is fundamental to the subject

Cell Biology, Genetics, Molecular Biology, Evolution and Ecology PS Verma | VK Agarwal, 2004-09 The revised edition of this bestselling textbook provides latest and detailed account of vital topics in biology namely Cell Biology Genetics Molecular Biology Evolution and Ecology The treatment is very exhaustive as the book devotes exclusive parts to each topic yet in a simple lucid and concise manner Simplified and well labelled diagrams and pictures make the subject interesting and easy to understand It is developed for students of B Sc Pass and Honours courses primarily However it is equally useful for students of M Sc Zoology Botany and Biosciences Aspirants of medical entrance and civil services examinations would also find the book extremely useful

Genetics Benjamin Pierce, 2004-12-24 Based on the author's more than twenty years of teaching experience Genetics A Conceptual Approach offers a fresh new way of introducing the major concepts and mechanics of genetics focusing students on the big picture without overwhelming them with detail

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