

Name:

Mendelian Genetics Problems

1) Do your own work. These problems are similar to what will occur on the second lecture exam, final exam and lab quizzes. Do not share or work with others since you cannot do this on the exams.

2) Make sure to write your final answer in the boxes, but feel free to use the rest of the page for calculations. Whenever you are determining the results of a cross, write out the Punnett Square!

3) When you assign letters to alleles, make sure to choose letters that look clearly different in upper and lower case. Also make sure you know which is the dominant and recessive allele and phenotype.

1. In humans, a free earlobe is the dominant trait and an attached earlobe is the recessive trait. Both parents are heterozygous.

a) What are their phenotypes?

a) Mother's phenotype: _____
Father's phenotype: _____

b) What is the probability of this couple having a child **with attached earlobes**?

b) _____ %

c) What is the probability of this couple having a child **with free earlobes**?

c) _____ %

Mendelian Genetics Problems With Answers

Donald L. Cronkite



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Genetics Problem Solving and Worldview Esther Dale, 2007 **Problems in Genetics** David Harrison, 1970 **CK-12 Biology Teacher's Edition** CK-12 Foundation, 2012-04-11 CK 12 Biology Teacher's Edition complements the CK 12 Biology Student Edition FlexBook Uncovering Student Ideas in Life Science Page Keeley, 2011 Author Page Keeley continues to provide K 12 teachers with her highly usable and popular formula for uncovering and addressing the preconceptions that students bring to the classroom the formative assessment probe in this first book devoted exclusively to life science in her *Uncovering Student Ideas in Science* series In this volume Keeley addresses the topics of life and its diversity structure and function life processes and needs of living things ecosystems and change reproduction life cycles and heredity and human biology Using the probes as diagnostic tools that identify and analyze students preconceptions teachers can easily move students from where they are in their current thinking to where they need to be to achieve scientific understanding At the same time use of the probes deepens the teacher's understanding of the subject matter suggests instructional implications and expands assessment literacy Using the student learning data gained through the probes to inform teaching and learning is what makes the probes formative Each probe is supported by extensive Teacher Notes which provide background information on the purpose of the probes related concepts explanations of the life science ideas being taught related ideas in the national science standards research on typical student misconceptions in life science and suggestions for instruction and assessment *Campbell Biology Australian and New Zealand Edition* Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information Primer of Genetic Analysis James N. Thompson, Jr, Jenna J. Hellack, Gerald Braver, David S. Durica, 2007-10-01 An invaluable student tested study aid this primer first published in 2007 provides guided instruction for the analysis and interpretation of genetic principles and practice in problem solving Each section is introduced with a summary of useful hints for problem solving and an overview of the topic with key terms A series of problems generally progressing from simple to more complex then allows students to test their understanding of the material Each question and answer is accompanied by detailed explanation This third edition includes

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