

Assignment #1: Mendelian Genetics

This assignment is affiliated with the "Assignment #1: Mendelian Genetics" quiz on the folio course page. Complete the following problems before attempting the quiz as you will only have one attempt at the quiz and there will be a 25 minute time limit. The answers to these questions, questions concerning methodology, along with 1-2 new problems (with similar mechanisms to solving those problems) are all potential quiz questions. You must complete the quiz prior to midnight Sunday, Aug. 26.

- 1a) The summer squash has a white fruit color which is dominant over yellow fruit color. If a white fruit homozygous plant is crossed with a homozygous yellow fruit plant, what will the genotype of the first generation (F_1)?

C = White coloring; c = Yellow coloring
CC crossed with cc

	C	C
c	Cc	Cc
c	Cc	Cc

The genotypes of the F_1 generation will all be heterozygous (Cc).

- 1b) If the individuals from the F_1 generation were allowed to fertilize one another, what is the expected genotypic and phenotypic ratios?

All F_1 generation must be Cc

	C	c
C	CC	Cc
c	Cc	cc

The expected genotypic ratio would be 1:2:1 while the phenotypic ratio would be 3:1

- 2a) In the high pressure, deep, dark depths of the ocean's abyssal plains lives an organism called a viper fish. These fish resemble transparent eels with overlarge heads and very long, pointy teeth. Some of these fish can produce biochemical luminescence along the length of their bodies and some cannot. Also, some have very large eyes while others have almost no eyes at all. Assume that these two traits are each controlled by single separate genes with the production of bioluminescence (L) and large eyes (E) being dominant alleles for those traits. A female fish heterozygous for both traits happens to meet a male that is homozygous dominant for bioluminescence and homozygous recessive for eyes. List all the possible genotypes of their offspring.

Possible genotypes: LLEe, LLee, LLEe, LLee

- 2b) What are the odds that any progeny will be bioluminescent with no eyes?

Mother = LLEe

Father = LLee

	LE	Le	LE	Le
Le	LLLe	LLee	LLLe	LLee
Le	LLLe	LLee	LLLe	LLee
Le	LLLe	LLee	LLLe	LLee
Le	LLLe	LLee	LLLe	LLee

Bioluminescent along length of their bodies and no eyes (LLLe or LLee) = 50%

Genetics Problem Set 4 Answer

B Lingard



Genetics Problem Set 4 Answer:

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 additional problems in basic areas that often challenge students extended coverage in molecular biology and development an expanded glossary of terms and updated historical landmarks Students at all levels from beginning biologists and premedical students to graduates seeking a review of basic genetics will find this book a valuable aid It will complement the formal presentation in any genetics textbook or stand alone as a self paced review manual

Clinical Genetics Golder Wilson, 2000 With the advent of genetic engineering and mapping of the human genome public awareness concerning the contributions that genetic disorders make to illness or death has increased significantly The fields of human and medical genetics have continued to expand and offer new ways of understanding preventing and managing patients with genetic disorders At the core of the genetic approach are the ideas of anticipation and prevention which are essential for modern medical practice Clinical Genetics A Short Course explains the importance of being able to anticipate disease based on individual characteristics or a family history and then providing the necessary measures to forestall further complications Each informative chapter commences with a case presentation and an explanation of medical terms As the book progresses and new concepts are introduced each case is updated Clinical Genetics clarifies that although individual genetic disease may be rare it is an inescapable part of medicine Text contains Both basic principles and differential diagnosis and management Case oriented problems including answers and solutions Over 300 illustrations to clarify clinical cases Actual patient material Glossary of genetic and medical terminology Clinical Genetics A Short Course emphasizes clinical rather than traditional human genetics and is a vital resource for medical clinical and human geneticists as well as other health care professionals

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

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 Tiwari, 2024-01-08 *Nursing Model Question Paper (Part 4) - 2024 Akash Tiwari, 2024-01-01 Genetics? No Problem!*
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