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The following problems are provided to develop your skill and test your understanding of solving problems in the patterns of inheritance. They will be most helpful if you solve them on your own.

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Problems Involving One Gene 1. In cats,  
long hair is recessive to short hair. A true-

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breeding (homozygous) short-haired male is mated to a long-haired female. What will their kittens look like? 2. Two cats are mated. One of the parent cats is long-haired (recessive allele). The litter which results

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Hypothetically, brown color (B) in naked mole rats is dominant to white color (b).  
Suppose you ran across a brown, male,

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naked mole rat in class and decided to find out if he was BB or Bb by using a testcross. You'd mate him to a white (totally recessive) female, and examine the offspring produced.

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**Solutions to Genetics Problems** This chapter is much more than a solution set for the genetics problems. Here you will find details concerning the assumptions made, the approaches taken, the predictions that are reasonable, and strategies that you can use to solve any genetics problem. The value of this

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man marries an albino girl, what would be the phenotypic and genotypic ratios in F<sub>2</sub> generation from this marriage? Solution:

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haired female. What will their kittens look like? 2. Two cats are mated. One of the parent cats is long-haired (recessive

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genetics problems and answers problem 1.  
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Suppose you ran across a brown, male, naked mole rat in class and decided to find out if he was BB or Bb by using a testcross.

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account for the inheritance patterns of simple traits, our understanding of how alleles, genes, epigenetics, and environment contribute to phenotype continues to expand beyond. This book is intended for the first-year university student in a general biology or introductory genetics course. It explains

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hundreds of textbooks in this field, each one intended to provide an improvement over previous textbooks, students of biology continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems. Various interpretations of biology terms also contribute to the

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**Solutions** difficulties of mastering the subject. In a study of biology, REA found the following basic reasons underlying the inherent difficulties of biology: No systematic rules of analysis were ever developed to follow in a step-by-step manner to solve typically encountered problems. This results from numerous different conditions and

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Solutions principles involved in a problem that leads to many possible different solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps, making this task more burdensome than solving the problem directly due to the expectation of much trial and error.

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**Solutions** Current textbooks normally explain a given principle in a few pages written by a biologist who has insight into the subject matter not shared by others. These explanations are often written in an abstract manner that causes confusion as to the principle's use and application. Explanations then are often not sufficiently

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detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of principles and their applications are usually not discussed, and it is left to the reader to discover this while doing exercises. Accordingly, the average

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student is expected to rediscover that which has long been established and practiced, but not always published or adequately explained. The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles.

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missing information. This leaves the reader with an impression that the problems and even the subject are hard to learn - completely the opposite of what an example is supposed to do. Poor examples are often worded in a confusing or obscure way. They might not state the nature of the problem or they present a solution,

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which appears to have no direct relation to the problem. These problems usually offer an overly general discussion - never revealing how or what is to be solved. Many examples do not include accompanying diagrams or graphs, denying the reader the exposure necessary for drawing good diagrams and graphs.

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**Solutions** Such practice only strengthens understanding by simplifying and organizing biology processes. Students can learn the subject only by doing the exercises themselves and reviewing them in class, obtaining experience in applying the principles with their different ramifications. In doing the exercises by

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Solutions, students find that they are required to devote considerable more time to biology than to other subjects, because they are uncertain with regard to the selection and application of the theorems and principles involved. It is also often necessary for students to discover those "tricks" not revealed in their texts (or

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Solutions) that make it possible to solve problems easily. Students must usually resort to methods of trial and error to discover these "tricks," therefore finding out that they may sometimes spend several hours to solve a single problem. When reviewing the exercises in classrooms, instructors usually request students to take

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**Solutions** turns in writing solutions on the boards and explaining them to the class. Students often find it difficult to explain in a manner that holds the interest of the class, and enables the remaining students to follow the material written on the boards. The remaining students in the class are thus too occupied with copying the

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**Solutions** material off the boards to follow the professor's explanations. This book is intended to aid students in biology overcome the difficulties described by supplying detailed illustrations of the solution methods that are usually not apparent to students. Solution methods are illustrated by problems that have been

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The problems are arranged in order of complexity to enable students to learn and understand a particular topic by reviewing the problems in sequence. The problems are illustrated with detailed, step-by-step explanations, to save the students large

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amounts of time that is often needed to fill in the gaps that are usually found between steps of illustrations in textbooks or review/outline books. The staff of REA considers biology a subject that is best learned by allowing students to view the methods of analysis and solution techniques. This learning approach is

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problem and solution, they can readily locate it in the book by referring to the index that has been extensively prepared. It is also possible to locate a particular type of problem by glancing at just the material within the boxed portions. Each problem is numbered and surrounded by a heavy black border for speedy identification.

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however, one of the two parental characters is so preponderant that it is difficult, or quite impossible, to detect the other in the hybrid. from 4. The Forms of the Hybrid One of the most influential and important scientific works ever written, the 1865 paper Experiments in Plant Hybridisation was all but ignored in its

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