

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 Practice Problems Answers

M Carnoy



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Option Allyson J. Weseley, Robert McEntarffer, 2023-07-04 Previous editions have borne slightly different titles MCAT Biology Review 2019-2020 Kaplan Test Prep, 2018-07-03 Kaplan's MCAT Biology Review 2019-2020 offers an expert study plan detailed subject review and hundreds of online and in book practice questions all authored by the experts behind the MCAT prep course that has helped more people get into medical school than all other major courses combined Prepping for the MCAT is a true challenge Kaplan can be your partner along the way offering guidance on where to focus your efforts and how to organize your review This book has been updated to match the AAMC's guidelines precisely no more worrying if your MCAT review is comprehensive The Most Practice More than 350 questions in the book and access to even more online more practice than any other MCAT biology book on the market The Best Practice Comprehensive biology subject review is written by top rated award winning Kaplan instructors Full color 3 D illustrations from Scientific American charts graphs and diagrams help turn even the most complex science into easy to visualize concepts All material is vetted by editors with advanced science degrees and by a medical doctor Online resources including a full length practice test help you practice in the same computer based format you'll see on Test Day Expert Guidance High yield badges throughout the book identify the top 100 topics most tested by the AAMC We know the test The Kaplan MCAT team has spent years studying every MCAT related document available Kaplan's expert psychometricians ensure our practice questions and study materials are true to the test

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of genetics including the step by step problem solving approach pioneered by the author The book is suitable for students who have a limited background in biology and chemistry or for briefer courses where there is little time to cover advanced topics

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