

I'm not robot!

AP Biology _____ Period _____ Date _____

GENETICS PRACTICE 1: BASIC MENDELIAN GENETICS

Solve these genetics problems. Be sure to complete the Punnett squares to show how you arrived your solution.

1. Humans the allele for albinism is recessive to the allele for normal skin pigmentation. If two heterozygous (Aa) parents, what is the chance that a child will have normal skin pigment? What is the chance that a child will be albino?

normal pigment

	A	a	
A	AA	Aa	75% chance of AA & Aa
a	Aa	aa	25% chance of aa

albinism

2. If a child is albino, what is the chance that it is a female? (Remember that the allele is recessive.) **23 or 67%**

3. In a couple people having one horn is dominant and no horns is recessive. Given the cross of a couple people when that is heterozygous for horns with a couple people when that does not have horns. Determine the genotypes & phenotypes of the possible offspring?

	H	h	
H	Hh	hh	50% chance of Hh (horned)
h	Hh	hh	50% chance of hh (no horn)

4. Humans, the brown eye (B) allele is dominant to the blue eye allele (b). If two heterozygous have, what will be the likely genotype and phenotype ratios of the offspring?

	B	b	
B	BB	Bb	75% chance of brown-eyed
b	Bb	bb	25% chance of blue-eyed

25% chance of BB
50% chance of Bb
25% chance of bb

Blood Type Practice

In a paternity case, a single mother claimed that a certain man was the father of her baby. The man denied it, claiming that her current boyfriend was the father. The court ordered a blood test (much cheaper than DNA testing) to see if he could be ruled out as the father. The mother was Type O and the baby was Type O. The man was Type AB. Is it possible that he was the father?

$F = ii$
~~baby = ii~~
 $M = I^A I^B *$

I^A	$I^A i$	$I^A I^B$	$\rightarrow A$
I^B	$I^B i$	$I^B I^B$	$\rightarrow B$

Professor Mohammad Hashim Kamali is one of the leading scholars of our time in the Islamic legal field, to which this book is a timely and critical contribution. His thoughtful, in-depth and accessible responses to essential questions help the reader to gain a comprehensive understanding of crucial Islamic notions.

Tariq Ramadan, Professor of Contemporary Islamic Studies, University of Oxford

A must read for anyone seeking answers to some of the most commonly asked questions about Shariah and a masterly demonstration of the contextualization of Shariah law in today's setting.

Abdullah Saeed, Professor of Arab and Islamic Studies, University of Melbourne

Shariah law is a subject that is misunderstood and misrepresented by many in the West. More than simply a system of law, it is concerned with a set of values and rules that are essential to the understanding and practice of Islam. In this volume, Mohammad Hashim Kamali, a world-renowned expert on Shariah, adopts a question-and-answer format to provide a clear introduction to its most salient aspects.

Extending from the sources of Shariah in the Qur'an, hadith and the legal maxims of Islamic law to the discussion of issues such as freedom of religion, gender equality and human rights, *Shariah Law: Questions and Answers* connects the theoretical aspects of the law with how it is applied in the world today. At once scholarly and accessible, it is sure to be a vital resource for students, teachers and general readers, addressing as it does a range of contemporary concerns, including jihad, democracy, the environment, genetic engineering, human cloning, euthanasia and abortion.

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 RELIGION
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Mendelian Genetics Problems

Name: _____

Mr. _____

1. The annual plant *Majid-poppus gracilis* has two pairs of chromosomes 1 and 2. In this species, the probability that two traits *a* and *b* selected at random will be on the same chromosome of *Majid-poppus* is the probability that they will both be on chromosome 1 (1/2), since the probability that they will both be on chromosome 2 (also 1/2):
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$, or 25%. This is often symbolized as $\binom{2}{2}$ (of pair of chromosomes).

Human beings have 23 pairs of chromosomes. What is the probability that any two human traits selected at random will be on the same chromosome?

2. Among Hereford cattle there is a dominant allele called *polled*, the individuals that have this allele lack horns. After college, you become a cattle farmer and stock your spread mostly with polled cattle. You personally make sure that each cow has no horns, and none does. Among the calves that year, however, some grow horns. Angrily you chopse of them, and make certain that no horned adult has gotten into your pasture. None has. The next year, however, more horned calves are born. What is the source of your problem? What should you do to rectify it?

3. An inherited trait among human beings in Norway causes afflicted individuals to have very waxy hair, not unlike that of a sheep. The trait is called *woolly*. The trait is very evident when it occurs in families; no child possesses woolly hair unless at least one parent does. Imagine you are a Norwegian judge, and that you have before you a woolly haired man suing his normal-haired wife for divorce because their first child has woolly hair but their second child has normal long, blonde hair. The husband claims this constitutes evidence of infidelity on the part of his wife. Do you accept his claim? Justify your decision.

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