

GENETICS PRACTICE 1: BASIC MENDELIAN GENETICS

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

1. In humans the allele for albinism is recessive to the allele for normal skin pigmentation. If two heterozygotes have children, what is the chance that a child will have normal skin pigment? What is the chance that a child will be albino?

	A	a	normal pigment:
A	AA	Aa	75% chance of AA & Aa
a	Aa	aa	albino: 25% chance of aa

- a. If the child is normal, what is the chance that it is a carrier (heterozygous) for the albino allele? (**CAREFUL**) **2/3 or 67%**
2. In purple people eaters, one-horn is dominant and no horns is recessive. Show the cross of a purple people eater that is heterozygous for horns with a purple people eater that does not have horns. Summarize 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)

3. In humans, the brown-eye (B) allele is dominant to the blue-eye allele (b). If two heterozygotes mate, what will be the likely genotype and phenotype ratios of the offspring.

	B	b	75% chance of brown-eyed
B	BB	Bb	25% chance of blue-eyed
b	Bb	bb	25% chance of BB
			50% chance of Bb
			25% chance of bb

Genetics Practice 1 Basic Mendelian Genetics Answers

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Genetics Practice 1 Basic Mendelian Genetics Answers:

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Genetics Practice 1 Basic Mendelian Genetics Answers**

In a world inundated with displays and the cacophony of quick conversation, the profound energy and mental resonance of verbal beauty often diminish into obscurity, eclipsed by the regular assault of noise and distractions. Yet, located within the lyrical pages of **Genetics Practice 1 Basic Mendelian Genetics Answers**, a captivating work of literary brilliance that impulses with fresh thoughts, lies an unforgettable journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this mesmerizing opus manuals viewers on a mental odyssey, softly exposing the latent potential and profound influence stuck within the complex web of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is main subjects, dissect its fascinating writing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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