

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

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