

Name \_\_\_\_\_

Period \_\_\_\_\_

AP Biology

Date \_\_\_\_\_

**GENETICS PRACTICE 1: BASIC MENDELIAN GENETICS**

Solve these genetic 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 heterozygous brown-skinned parents, what is the chance that a child will have normal skin pigmentation? What is the chance that a child will be albino?

|          |           |           |
|----------|-----------|-----------|
|          | <b>A</b>  | <b>a</b>  |
| <b>A</b> | <b>AA</b> | <b>Aa</b> |
| <b>a</b> | <b>Aa</b> | <b>aa</b> |

normal pigment

75% chance of AA &amp; Aa

albinism

25% chance of aa

- a. If the child is normal, what is the chance that it is a carrier (heterozygous) for the albino allele? CAREFULLY **2/3 or 67%**
2. In guinea pig(s) hair(s), wire hair is dominant and no hair is recessive. Show the cross of a purple guinea pig(s) that is heterozygous for hair(s) with a purple guinea pig(s) that does not have hair(s). Summarize the genotypes & phenotypes of the possible offspring?

|          |           |           |
|----------|-----------|-----------|
|          | <b>H</b>  | <b>h</b>  |
| <b>h</b> | <b>Hh</b> | <b>hh</b> |
| <b>h</b> | <b>Hh</b> | <b>hh</b> |

50% chance of Hh (horned)

50% chance of hh (no horn)

3. In humans, the brown-eye (B) allele is dominant to the blue-eye allele (b). If two heterozygous mums, what will be the likely genotypes and phenotypes ratios of the offspring?

|          |           |           |
|----------|-----------|-----------|
|          | <b>B</b>  | <b>b</b>  |
| <b>B</b> | <b>BB</b> | <b>Bb</b> |
| <b>b</b> | <b>Bb</b> | <b>bb</b> |

75% chance of brown-eyed

25% chance of blue-eyed

25% chance of BB

50% chance of Bb

25% chance of bb

# Genetic Practice Basic Mendelian Genetics Key

**Jin-Ying Zhang**



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