

Genetics Packet ~ Punnett Square Practice **KEY**

Basics

1. The following pairs of letters represent alleles of different genotypes. Indicate which pairs are **Heterozygous** and which are **Homozygous**. Also indicate whether the homozygous pairs are **Dominant** or **Recessive** (*note heterozygous pairs don't need either dominant nor recessive labels.)

A. BB = Homozygous dominantD. gg = Homozygous recessiveB. Bb = HeterozygousE. aa = Homozygous recessiveC. Cg = HeterozygousF. Ee = Heterozygous

2. In humans, brown eye color (B), is dominant over blue eye color (b). What are the **phenotypes** of the following genotypes?

A. Bb = Brown eyesB. BB = Brown eyesC. bb = blue eyes

Monohybrid Crosses with Complete Dominance

3. A heterozygous smooth pea pod plant is crossed with a wrinkled pea pod plant. There are two alleles for pea pod, smooth and wrinkled. Use R for seed texture. Predict the offspring from this cross.

a. What is the genotype of the parents? Rr x rr

b. Set up a Punnett square with possible gametes.

	R	r
r	Rr	rr
r	Rr	rr

c. Fill in the Punnett square for the resultant offspring.

d. What is the predicted genotypic ratio for the offspring? 1 Rr : 1 rre. What is the predicted phenotypic ratio for the offspring? 1 smooth : 1 wrinkledf. If this cross produced 50 seeds how many would you predict to have a wrinkled pod? 25

4. In humans, achondroplasia "dwarfism" (D) is dominant over normal (d).

A homozygous dominant (DD) person dies before the age of one.

A heterozygous (Dd) person is dwarfed. A homozygous recessive individual is normal.

A heterozygous dwarf man marries a heterozygous dwarf woman...

	D	d
D	DD	Dd
d	Dd	dd

a. What is the probability of having a normal child? 1/3... 33.3%b. What is the probability that the next child will **also** be normal? 1/3... 33.3%

each child is a new shot at the same punnett square!

c. What is the probability of having a child that is a dwarf? 2/3... 66.6%d. What is the probability of having a child that dies at one from this disorder? 25%

Genetics Practice Problems Packet

M Mark



Genetics Practice Problems Packet:

Genetics Practice Problems Packet Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Genetics Practice Problems Packet**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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