

Name: _____

Date: ____/____/____

Period: _____

AP - Mendelian Genetics' Packet 2023-2024**Alleles and Genotypes**

1. Identify each of the following as either an **allele**, **genotype**, or **phenotype**. Write the first letter (A, G, P).

AA, Aa, aa Flower Color: Hh, Hh, Hh B, b: _____ Human height: M, m _____

2. Circle the alleles below that are **dominant alleles** and draw a square around the **recessive alleles**.

D e k L N n R s G g

3. For each genotype below, indicate whether it is heterozygous (Het) or homozygous (Hom).

AA: _____ BB: _____ cc: _____ ee: _____ GG: _____ Hh: _____

4. Below each of the words are choices. Circle the genotypes that are **Homozygous Dominant**. Square the genotypes that are **Heterozygous**. Triangle the genotypes that are **homozygous recessive**. Shade in the genotypes that would produce the dominant phenotype.

AA Bb cc Dd ee FF GG Hh ii JJ

5. For each of the **genotypes** below determine what **phenotypes** would be possible. For each **phenotype** below, list the **genotypes**.

Purple flowers are dominant to white flowers

Wrinkled Pea Pods are recessive to inflated Pea Pods

Round seeds are dominant to constricted (Choose your own letter)

Green pea plant seeds are recessive to yellow (Choose your own letter)

Rr: _____

Hh: _____

_____: Round

_____: Yellow

Rr: _____

Hh: _____

_____: Round

_____: Yellow

rr: _____

hh: _____

_____: Constricted

_____: Green

6. During fertilization, each parent passes on ONE of the two alleles that make up their genotype. For each of the examples below, determine the probability:

a. A homozygous dominant parent passes on a dominant allele = ____/recessive allele = ____

b. A heterozygous parent passes on a dominant allele = ____/recessive allele = ____

c. A homozygous recessive parent passes on a dominant allele = ____/recessive allele = ____

Genetics Packet Answers

Sebastian Brünink

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Genetics Packet Answers:

Genetics Packet Answers Book Review: Unveiling the Power of Words

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