

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. Gg = 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%

Answer Key Genetics Punnett Squares Practice Packet

Nichole Vivion



Answer Key Genetics Punnett Squares Practice Packet:

Practice Makes Perfect: Biology Review and Workbook, Third Edition Nichole Vivion, 2023-01-13 Succeed in Biology with Practice Practice Practice Practice makes perfect only if you are practicing correctly Through clear and concise descriptions and supporting images the text in this book will help you uncover what can seem like a complex and complicated subject matter chock full of technical jargon As we move from an investigation of the microscopic to macroscopic world you will develop study habits to help you master the material specifically the identification of Greek and Latin roots in vocabulary terms and the application of new concepts to recurring and overarching themes of biology This approach will allow you to recognize how biology topics are interconnected which will deepen your overall understanding After each chapter lesson numerous exercises follow to help you check your understanding and better relate to the subject Dozens of exercises enable you to practice what you ve learned and a complete answer key is included for you to check your work Working through the lessons in this book you will find it easier than ever to grasp biology concepts And with a variety of assessment types provided for practice you will gain confidence using your growing biology skills in your classwork and on exams Actively engaging with biology topics over time will enable you to start to see biology all around you As the study of life biology is nearly everywhere you look and sometimes even shows up in very unexpected places

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