

DIHYBRID PUNNETT SQUARE PRACTICE

Directions:

In rabbits, gray hair (G) is dominant to white hair (g), and black eyes (B) are dominant to red eyes (b). These two traits are independent of each other. In other words, a female rabbit with the genotype GgBb may produce eggs with the alleles GB, Gb, gB, or gb. To predict the probability of these sorts of crosses, we will make a dihybrid Punnett Square.

Activity:

1. What are the phenotypes (descriptions) of rabbits that have the following genotypes:

Ggbb _____ ggBB _____

ggbb _____ GgBb _____

2. A male rabbit with the genotype **GGbb** is crossed with a female rabbit with the genotype **ggBb**. The square is set up below. Fill it out and determine the phenotypes and proportions in the offspring.

	<i>Gb</i>	<i>Gb</i>	<i>Gb</i>	<i>Gb</i>
<i>gB</i>				
<i>gB</i>				
<i>gb</i>				
<i>gb</i>				

How many out of 16 are:

Grey, red-eyed _____

Grey, black-eyed _____

White, red-eyed _____

White, black-eyed _____

3. A male rabbit has the genotype GgBb. Determine the gametes produced by this rabbit.

Hint: There are 4 possible combinations.

4. A female rabbit has the genotype ggBb. Determine the gametes (eggs) produced by this rabbit.

5. Use the gametes from #3 and #4 to set up a Punnett Square below. Put the male's gametes on the top and the female's gametes down the side. Then fill out the square and determine what kind of offspring would be produced from this cross and in what proportion.

6. An aquatic arthropod called a Cyclops has antennae that are either smooth or barbed. The allele for barbs is dominant. In the same organism, resistance to pesticides is a recessive trait. Make a "key" to show all the possible genotypes (and phenotypes) of this organism.

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