

Genetics and Probability Practice Problems

One of the best ways to learn genetics is to work problems. Work through the problems presented below, methodically setting down the information you are given and what you are to determine. Write down the symbols used for the alleles and genotypes, and the phenotypes resulting from those genotypes. Avoid using Punnett squares; while useful for learning basic concepts, they are much too laborious and mistake-prone. Instead, break complex crosses into their monohybrid components and rely on the product rule to find the combined ratios. **Always** look at the answers you get to see if they make sense.

1. Pattipan squash are either white or yellow. In growing pattipans, you notice that if you want to get white Pattipans at least one of the parents must be white. Which color is dominant? Explain.
2. Determine the probability of obtaining the indicated offspring in the following crosses:

Cross	Offspring	Probability
AAbb x AaBb	AaBb	a.
AaBB x AaBb	aaBB	b.
AABbcc x aabbCC	AabbCc	c.
AaBbCc x AaBbcc	aabbcc	d.

3. True-breeding tall red-flowered plants are crossed with dwarf white-flowered plants. The resulting F₁ generation consists of all tall pink-flowered plants. Assuming that height and flower color are each determined by a single gene locus, predict the results of an F₁ cross of the TtRr plants. List the phenotypes and predicted ratios for the F₂ generation.
4. Blood typing has often been used as evidence in paternity cases, when the blood type of the mother and child may indicate that a man alleged to be the father could not possibly have fathered the child. For the following mother and child combinations, **indicate** which blood groups of potential fathers would be exonerated (he can't be the father because he can't have the gene).

Blood Group of Mother	Blood Group of Child	Man Exonerated if he belongs to Blood Group(s)
AB	A	a.
O	B	b.
A	AB	c.
O	O	d.
B	A	e.

5. In rabbits, the homozygous CC is normal, Cc results in rabbits with deformed legs, and cc is **lethal**. For coat color, BB produces black, Bb brown, and bb a white coat. Give the phenotypic proportions of offspring from a cross of a deformed-leg, brown rabbit with a deformed-leg, white rabbit.
6. Polydactyly (extra fingers and toes) is due to a dominant gene. A father is polydactyl, the mother has the normal phenotype and they have had one normal child. What is the genotype of the father? Of the mother? What is the probability that a second child will have the normal number of digits?
7. In dogs, black (B) is dominant to chestnut (b), and solid color (S) is dominant to spotted (s). What are the genotypes of the parents that would produce a cross with 3/8 black solid, 3/8 black spotted, 1/8 chestnut solid and 1/8 chestnut spotted puppies? (Hint: determine the genotypes of the offspring first)

Section 12 Genetics And Probability Answers

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