

Genetics Practice - Monohybrid & Dihybrid (pg. 17)

1. A pea plant is the F_1 offspring of a true-breeding plant with purple flowers and a true-breeding plant with white flowers. This plant is crossed with one that has white flowers (homozygous). How many of the plants in the next generation will have white flowers? $P = PP \times pp$

$P_1 = Pp$ white = pp $Pp \times pp$ 50% white

	P	p
P	PP	Pp
p	Pp	pp

2. In humans, Cystic Fibrosis is caused by a recessive allele on chromosome 7. A person must inherit two of these alleles to have the disease. What are the chances an offspring will have the disease if both of the parents are heterozygous?

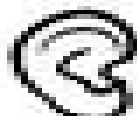
$Pp \times Pp$ 25% chance for child to be PP

	P	p
P	PP	Pp
p	Pp	pp

3. Attached-earlobes are recessive, and the mother has attached earlobes (aa) and the father is a heterozygote (Aa). How many of their children will have attached earlobes?

aa x aa 50% will have attached earlobes

	A	a
a	Aa	aa
a	Aa	aa



4. In goats, a dominant gene causes the goats to "bleat" when they are startled. A farmer has a goat that is carrier for the bleating gene (Bb). Goats that are without the gene are homozygous dominant. How many of their offspring will be bleaters? $Bb \times Bb$ 75% bleating goats

5. Hair crosses are performed to determine the genotype of an organism. A farmer's cow goes to a vet and a hair is taken from its head. The hair is tested for a gene that causes a hair to be curly. The hair is found to be curly. How many of the offspring will be curly-haired?



Curly should be recessive with a bleating goat (bb). If he is a carrier, then 50% of the offspring will be curly. If he is not, then none of the offspring will be curly.

6. In Guinea pigs, short hair is dominant over long hair. Also, in Guinea pigs, black eyes are dominant for red eyes. A male Guinea pig that is heterozygous for both traits (hybrid) is crossed with a female that is long haired and red eyed (homozygous recessive). What are the expected offspring and in what proportion? white x white



P_1 short hair P_1 black eyes
 P_1 long hair P_1 red eyes

Using multiplication principle: $1/4 \times 1/4 = 1/16$
 P_1 = short hair, black eyes P_1 = short hair, red eyes
 P_1 = long hair, black eyes P_1 = long hair, red eyes

7. If both parents are heterozygous for both traits, what are the expected offspring of their offspring and in what proportion? (You do not need to show a Punnett square for this one) white x white → always white (100%) hair
 1 short hair, black eyes 1 short hair, red eyes
 2 long hair, black eyes 2 long hair, red eyes

8. In pea plants, purple flowers are dominant to white flowers. Round seeds are dominant to wrinkled seeds. One these crosses without a Punnett square:

$Pprr \times pprr$ 50% purple x 50% round = 25%
 How many are purple with wrinkled seeds? _____

$PpRR \times Pprr$ 50% purple x 50% round = 50%
 How many are purple with round seeds? _____

$Pprr \times Pprr$ 50% white x 50% round = 25%
 How many are white with round seeds? _____

$PpRr \times PpRr$ 50% purple x 50% round = 25%
 How many are purple with wrinkled seeds? _____

Ap Biology Genetics Problems Answer Key

Gabrielle I. Edwards, Marion Cimmino



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