

BIOLOGY 100
SOLUTIONS TO PROBLEMS
MENDELIAN GENETICS

1. In summer squash, white fruit color is dominant over yellow. If a plant homozygous for white fruit color is crossed with a plant homozygous for yellow fruit color, what will the F1 generation be like? If these F1 plants are self fertilized and 213 offspring are recovered, approximately how many will be white, and how many of these might be expected to breed true?

| | | | | |
|--|---------------|-----|-------------|---|
| Parental phenotypes | White | x | Yellow | |
| Parental genotypes | WW | | ww | (W = dominant allele; w = recessive allele) |
| Parental gametes | (W) | | (w) | |
| F1 generation phenotype | White | | | |
| F1 generation genotype | Ww | | | |
| F1 generation gametes (each individual) | (W), (w) | | | |
| F2 phenotypes and genotypes: | (F1 gametes): | | | |
| | (W) | (w) | | |
| | (W) | (w) | White WW | White Ww |
| | (w) | (w) | White Ww | Yellow ww |

From the above Punnett square, 3/4 of the offspring will be white. Out of a total of 213 offspring, we expect 160 to be white (3/4 x 213).

The above Punnett square also tells us that 1/4 of the offspring will be true breeding white (i.e., homozygous dominant). We expect 53 offspring to be white true-breeders (1/4 x 213).

2. A white-fruited squash plant when crossed with a yellow-fruited plant produces offspring about half of which are white and half of which are yellow in fruit color. What are the genotypes of the parent plants?

In problems that ask for the genotype of parents, follow these simple steps: a) write down the phenotypes of each parent; b) based on these phenotypes, write down what you know about their phenotypes (remember that an expressed recessive trait means that an individual is homozygous recessive); c) look for recessive offspring; they are homozygous recessive and must have inherited a recessive allele from each parent; d) fill in the missing genotype information based on the above evidence.

| | | | |
|---|-------|---|--------|
| Phenotypes of parents | White | x | Yellow |
| Initial determination of parental genotypes | W? | | ww |

Mendelian Genetics Problems And Solutions

Sabine Zange



Mendelian Genetics Problems And Solutions:

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