

Dihybrid Cross Homework Problems

Please complete dihybrid crosses based on the following information:
 Round seeds (R) are dominant over wrinkled seeds (r).
 Yellow seeds (Y) are dominant over green seeds (y).
 Tall plants (T) are dominant over dwarf plants (t).

Please set up all problems in the following format (This is just an example):

1. Title and Genotypes (i.e. RrYy X RrYy)
2. Cross

Fill in fraction

3. Genotypic Ratio:

RRYy =
 RRYy =
 RRyy =
 RrYY =
 RrYy =
 Rryy =
 rrYY =
 rrYy =
 rryy =

Phenotypic Ratio:

Green & round =
 Green & wrinkled =
 Yellow & round =
 Yellow & wrinkled =

Problem #1: A heterozygous tall, heterozygous yellow plant is crossed with another heterozygous tall, heterozygous yellow plant.

Problem # 2: A homozygous round, homozygous yellow plant is crossed with a heterozygous round, heterozygous yellow plant.

Problem #3: A heterozygous tall, heterozygous round plant is crossed with a homozygous dwarf, homozygous wrinkled plant.