

## DIBYBRID GENETICS PROBLEMS

Name: \_\_\_\_\_

1. In garden peas, tall (T) vine is dominant over short (t) vine, and round pea pod (R) is dominant over wrinkled pea pod (r). Cross a homozygous tall, round pea plant with a homozygous short, wrinkled pea plant. Show the genotypes and phenotypes of the F<sub>2</sub> offspring, and the probability of each.

\_\_\_\_\_ Genotype of the homozygous tall, round pea plant

\_\_\_\_\_ Genotype of the homozygous short, wrinkled pea plant.


Genotypes	Phenotypes

2. In garden peas, tall (T) vine is dominant over short (t) vine. Yellow (Y) seed color is dominant over green (y) seed color. Cross a homozygous tall, yellow seeded plant with a homozygous tall, yellow seeded plant.

\_\_\_\_\_ Genotypes of the parent plants


Genotypes	Phenotypes

- \_\_\_\_\_ What is the probability for a tall offspring?
- \_\_\_\_\_ What is the probability for a short offspring?
- \_\_\_\_\_ What is the probability for a yellow offspring?
- \_\_\_\_\_ What is the probability for a green offspring?
- \_\_\_\_\_ What is the probability for a tall yellow offspring?
- \_\_\_\_\_ What is the probability for a tall green offspring?
- \_\_\_\_\_ What is the probability for a short yellow offspring?
- \_\_\_\_\_ What is the probability for a short green offspring?