**Genetics Problem Solving: Crosses Involving One Trait**

1) Cross a homozygous green plant with a heterozygous green plant.

2) Cross a white seed plant with a heterozygous brown seed plant.

3) In squash, the allele for white fruits (W) is dominant over the allele for yellow (w). If a white-fruited plant is crossed with a yellow-fruited plant and all the offspring are yellow, what are the possible genotypes of the parents and the offspring?

**Genetics Problem Solving: Crosses Involving Two Traits**

In mice, the ability to run normally is a dominant trait. Mice with this trait are called running mice (R). The recessive trait causes mice to run in circles only. Mice with this trait are called waltzing mice (r). Hair color is also inherited in mice. Black hair (B) is dominant over brown hair (b).

1. Cross a homozygous running, heterozygous black mouse with a waltzing brown mouse. How many mice will be black and waltzing?
2. Cross a heterozygous running, brown mouse with a heterozygous running, homozygous black mouse. How many mice are brown and waltzing?
3. Cross a heterozygous running, heterozygous black mouse with a homozygous running, homozygous black mouse. How many mice will be black and running?