Honors Biology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
NDHS Per: \_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_

**Dihybrids and Crossing Over**

For this cross, G = green which is dominant over g = yellow and F = furry is dominant over f = bald.

These two genes are linked on the same chromosome.

A male that is homozygous recessive for both traits mates with a female that is homozygous dominant for both traits to produce a male.

In another pair the male is homozygous green and homozygous bald and the female is homozygous yellow and homozygous furry. They produce a female.

What is the genotype and phenotype of the male offspring?

What is the genotype and phenotype of the female offspring?

If the offspring of these two pairs mate, what is the likelihood that they will produce a yellow furry offspring if the crossover rate of the two genes is 12%?