Name: _____   Date: _____

Genetic Inheritance

Incomplete Dominance-
"mixing" of dominant genes to form a new trait. Neither gene is dominant over the other.
Therefore, both genes will blend together to form a new trait.
    *All alleles are upper-case letters.

---Example---
    Cross a red snapdragon flower (R) with a white snapdragon flower (W).

P= RR x WW

	R	R
W	RW	RW
W	RW	RW

100% PINK flowers
100% RW

Practice Problem 1:
    Cross a pink snapdragon flower (RW) with a red snapdragon flower (R).

P= _____ x _____

Genotypes:

Phenotypes:
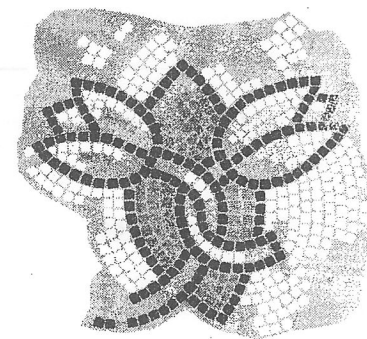
Practice Problem 2:
    Cross a pink snapdragon flower (RW) with a pink snapdragon flower (RW).

P= _____ x _____

Genotypes:

Phenotypes:

Co-dominance-
"sharing" of dominant traits. Both genes are dominant to the other, therefore BOTH traits will be present.
*All alleles are upper-case letters.

---Example---
Cross a white bull (W) with a red cow (R).

P= WW x RR (F$_1$ generation)

	W	W
R	WR	WR
R	WR	WR

100% WR
100% Roan

(*Roan* is the color of the black and white cow)

Practice Problem 1:
Cross the F$_1$ generation of a white bull and a red cow to find the F2 generation.

P= _____ x _____

Genotypes:

Phenotypes:

Practice Problem 2:
Cross a Roan cow (WR) with a red cow (R).

P= _____ x _____

Genotypes:

Phenotypes: