

## Non-Mendelian Inheritance

1. Define Mendelian Trait (p. 137):

Not all traits are considered Mendelian. Some Non-Mendelian types of inheritance are Polygenic traits, Co-Dominance, and Incomplete Dominance. POLYGENIC TRAITS are traits that are inherited on more than one gene.

### Co-Dominance (p. 139)

2. Define Co-Dominance:
3. Example: In cows, a white cow is WW, a black cow is BB, and the heterozygous condition produces a black and white spotted cow.
  - a. Show a cross between a black cow and spotted cow.
  - b. \_\_\_\_\_% of the offspring should be White  
\_\_\_\_\_% of the offspring should be Black  
\_\_\_\_\_% of the offspring should be Spotted


### Incomplete Dominance (p. 140)

4. Define Incomplete Dominance:
5. Example: In snapdragons, red-flowered plants are (RR), pink-flowered plants are (RW), and white flowered plants are (WW).
  - a. Show a cross between a red-flowered plant and a pink flowered plant.


- b. \_\_\_\_\_% of the offspring should be Red  
\_\_\_\_\_% of the offspring should be Pink  
\_\_\_\_\_% of the offspring should be White