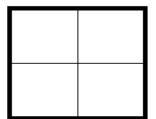
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1. Define Mendelian Trait (p. 198):

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

Co-Dominance (p. 202)

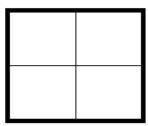
- 2. Define Co-Dominance:
- 3. Example: In cows, a white cow is WW, a black cow is BB, and the heterozygous condition produces a black and white spotted cow.



- 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. 202)

- 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.

٥.	% of the offspring should be Red
	% of the offspring should be Pink
	% of the offspring should be White

Sex-Linked Traits (p. 200)

6. What are the SEX CHROMOSOMES?

7	Mala Canatypa	Eamala Canatyna
/.	Male Genotype	Female Genotype

- 8. Define SEX-LINKED TRAITS -
- 9. In Humans, color-blindness is a <u>recessive</u> sex linked trait (X^b) . The dominant trait (X^B) is no color blindness.
 - a. Show a cross between a mother that is a carrier for the color-blind trait and a father that is not colorblind.

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- b. What chance do their sons have of being color-blind?
- c. What chance do their daughters have of being color-blind?

Selective Breeding

Farmers and Ranchers use a process called **SELECTIVE BREEDING** to improve their crops and herds. Using a chromebook, do a quick search and answer the following.

- 10. Define selective breeding.
- 11. Dog breeders use selective breeding to get desired traits in dogs. Describe how this is done: