

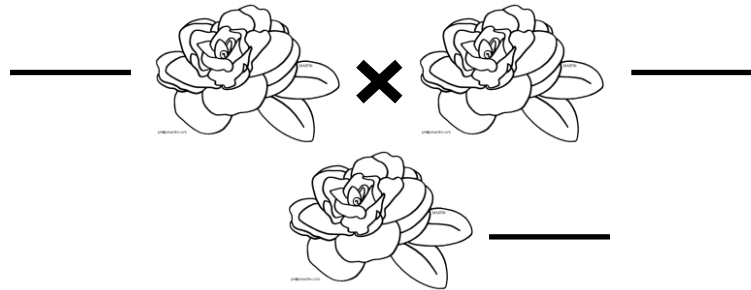
Name: _____ Period: _____

5.4: Complex Patterns of Inheritance - Continued

Incomplete Dominance versus Codominance

Codominance

Examples: Japanese Camellia



Punnett Square Problems with Codominance:



Both white (W) and black (B) feather color are dominant in chickens. Speckled (BW) is the codominant phenotype. Cross a speckled chicken with a black-feathered chicken.

Parent Genotypes:

Possible Phenotypes:

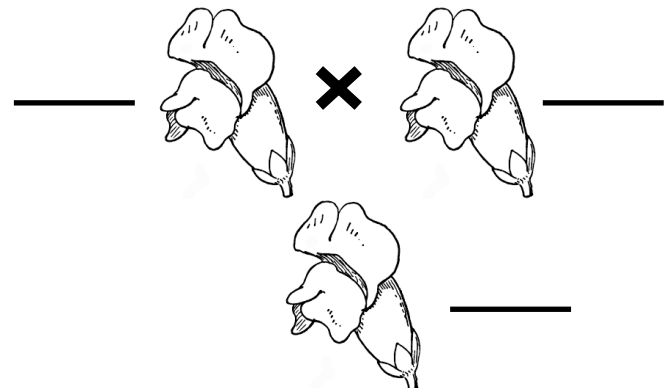
_____ Fraction: _____ Percent Chance: _____

_____ Fraction: _____ Percent Chance: _____

_____ Fraction: _____ Percent Chance: _____

Incomplete Dominance

Examples: Snapdragon flowers



Punnett Square Problems with Incomplete Dominance:

Parakeets have MANY different color schemes and patterns of inheritance. The “blue series” of parakeets follows **incomplete dominance**. Cross a Cobalt parakeet with a Mauve parakeet. What are the possible phenotypes and % probability for each?

Genotype	Phenotype
	Sky blue
	Mauve
	Cobalt

Parent Genotypes:

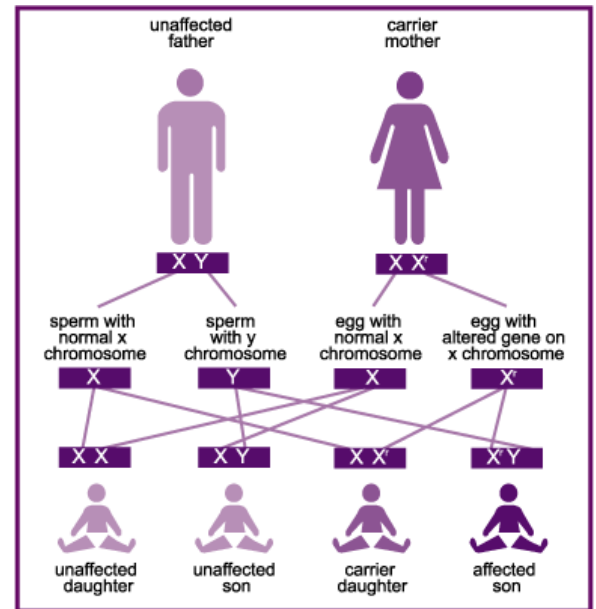
Possible Phenotypes:

_____ Fraction: _____ Percent Chance: _____
 _____ Fraction: _____ Percent Chance: _____
 _____ Fraction: _____ Percent Chance: _____

Sex-Linked Traits

Example: Color Blindness

Parent Genotypes:



Possible Phenotypes:

_____ Fraction: _____ Percent Chance: _____
 _____ Fraction: _____ Percent Chance: _____
 _____ Fraction: _____ Percent Chance: _____