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## Codominance and Incomplete Dominance

## Image Observation 1:

How would you write the genotype?
Red Parent: $\qquad$
Blue Parent: $\qquad$
Red and Blue Offspring: $\qquad$


## Image Observation 2:

How would you write the genotype?
Red Parent: $\qquad$
White Parent: $\qquad$
Pink Offspring: $\qquad$


## Co-dominance and Incomplete Dominance Practice

## Practice 1:

1. In parrots, yellow feathers ( Y ) are incompletely dominant with blue (B). A heterozygous parrot (BY) has green feathers. Draw a cross for a BY and a YY.

a. What are the genotypes of the offspring? $\qquad$
b. What are the phenotypes of the offspring?

## Practice 2:

2. In horses, when a brown (B) horse and a white (W) horse are bred, the offspring are white with brown mane and tail (BW). Work a cross between two white horses with brown manes and tails cattle.

a. What are the genotypes of the offspring? $\qquad$
b. What are the phenotypes of the offspring? $\qquad$

c. What percent of the offspring will be brown? $\qquad$

## Practice 3:

3. Chickens have two alleles for feather color: black (B) and a white (W). The heterozygous (BW) is speckled black and white.
a. Which phenotype is the combination of the other two? $\qquad$
b. Draw a Punnett square for a cross between a black feathered chicken and a speckled black and white chicken.

a. What are the genotypes of the offspring? $\qquad$
c. What are the phenotypes of the offspring? $\qquad$
b. What is the ratio of genotypes?
d. What is the ratio of phenotypes?
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## Practice 4:

4. In Labradors, the allele for black hair (B) and the allele for yellow hair (Y) show incomplete dominance. The heterozygous condition results in a brown (BY) Labrador. Use a Punnett squares to prove your answers.
a. If an entire litter of puppies is brown and the mother is yellow, what color was the father likely to be?

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b. If $50 \%$ of the puppies were brown, $25 \%$ were black and $25 \%$ were yellow, what was the likely genotype of each parent?
$\qquad$ X $\qquad$

c. What must the parents be to have an entire litter of black puppies?
$\qquad$ X $\qquad$
Yellow puppies?
$\qquad$ X $\qquad$

