






Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Codominance: Predicting Blood Types

Complete the Punnett squares based on the information in the pictures, and then use the Punnett squares to answer the questions.


**Key:**

<b>Phenotype:</b>				
<b>Genotype:</b>	<b>AA or Ai</b>	<b>BB or Bi</b>	<b>AB</b>	<b>ii</b>

  
 $AA \times Bi$

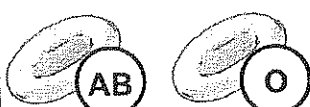

1. What percentage of the offspring will have the type A blood phenotype? \_\_\_\_\_

2. What percentage of the offspring will have the type AB blood phenotype? \_\_\_\_\_

  
 $Ai \times Ai$



3. What percentage of the offspring will have the type O blood phenotype? \_\_\_\_\_

4. What percentage of the offspring will have a homozygous genotype for type A blood? \_\_\_\_\_

  
 $AB \times ii$

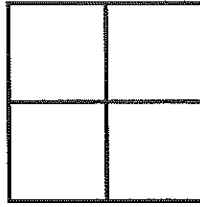
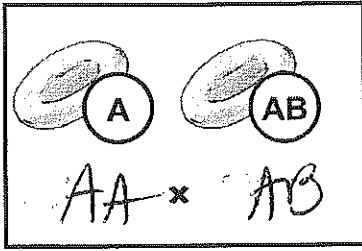

5. What percentage of the offspring will have the type A blood phenotype? \_\_\_\_\_

6. What percentage of the offspring will have a heterozygous genotype of any kind? \_\_\_\_\_

  
 $ii \times Bi$

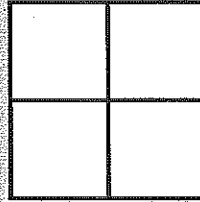
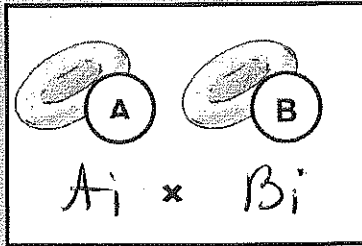

7. What percentage of the offspring will have a homozygous genotype for type O blood? \_\_\_\_\_

8. What percentage of the offspring will have the type B blood phenotype? \_\_\_\_\_



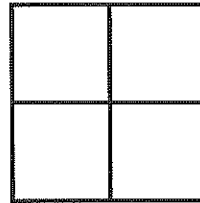
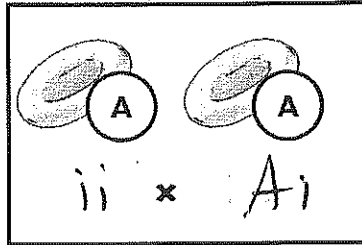
9. What percentage of the offspring will have the type AB blood phenotype? \_\_\_\_\_

10. What percentage of the offspring will have a homozygous genotype for type A blood? \_\_\_\_\_



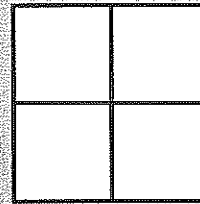
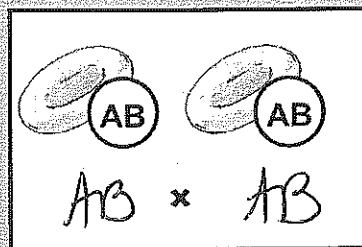
11. What percentage of the offspring will have the type O blood phenotype? \_\_\_\_\_

12. What percentage of the offspring will have the type AB blood phenotype? \_\_\_\_\_



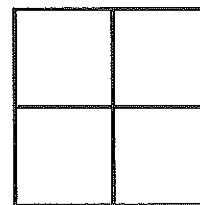
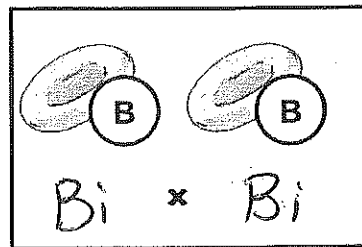
13. What percentage of the offspring will have a heterozygous genotype and a type A phenotype? \_\_\_\_\_

14. What percentage of the offspring will have the type O blood phenotype? \_\_\_\_\_



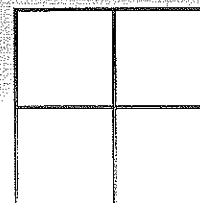
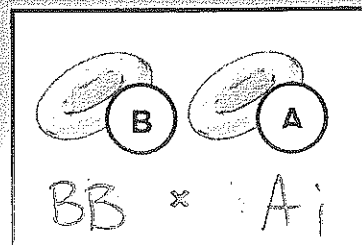
15. What percentage of the offspring will have a homozygous genotype for type B blood? \_\_\_\_\_

16. What percentage of the offspring will have the type AB blood phenotype? \_\_\_\_\_



17. What percentage of the offspring will have the type B blood phenotype? \_\_\_\_\_

18. What percentage of the offspring will have the type O blood phenotype? \_\_\_\_\_



19. What percentage of the offspring will have the type AB blood phenotype? \_\_\_\_\_

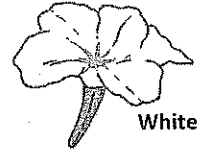
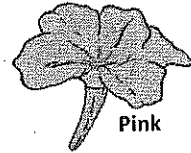
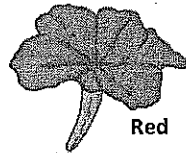
20. What percentage of the offspring will have the type B blood phenotype? \_\_\_\_\_

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## Incomplete Dominance: Pigments

Complete the Punnett squares based on the information in the pictures, and then use the Punnett squares to answer the questions.

Genotype	Phenotype
RR	Red flowers
Rr	Pink flowers
rr	White flowers



Pink
White  
  
**Rr** × **rr**


1. What percentage of the offspring will have pink flowers? \_\_\_\_\_

2. What percentage of the offspring will have the red flowers? \_\_\_\_\_

Pink
Pink  
  
**Rr** × **Rr**


3. What percentage of the offspring will have white flowers? \_\_\_\_\_

4. What percentage of the offspring will have pink flowers? \_\_\_\_\_

White
Red  
  
**rr** × **RR**


5. What percentage of the offspring will have a heterozygous genotype? \_\_\_\_\_

6. What percentage of the offspring will have white flowers? \_\_\_\_\_

Pink
Red  
  
**Rr** × **RR**




7. What percentage of the offspring will have red flowers? \_\_\_\_\_

8. What will be the ratio of red flowers to pink flowers? \_\_\_\_\_

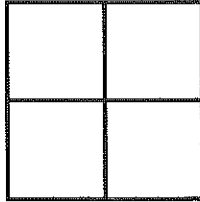
Genotype	Phenotype
DD	Dark Brown
Dd	Palomino (Tan)
dd	Cream (almost white)



Dark Brown Palomino



**DD** × **Dd**



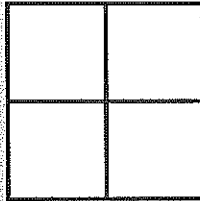
1. What percentage of the offspring will have dark brown coats? \_\_\_\_\_

2. What percentage of the offspring will have palomino coats? \_\_\_\_\_

Cream Palomino



**dd** × **Dd**



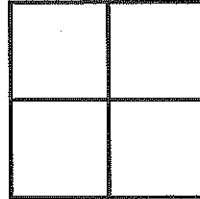
3. What percentage of the offspring will have a homozygous genotype? \_\_\_\_\_

4. What will be the ratio of cream to palomino horse? \_\_\_\_\_

Palomino Palomino



**Dd** × **Dd**



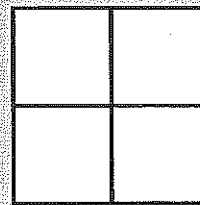
5. What percentage of the offspring will have cream coats? \_\_\_\_\_

6. What percentage of the offspring will have dark brown coats? \_\_\_\_\_

Dark Brown Cream



**DD** × **dd**



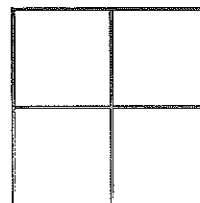
7. What percentage of the offspring will have palomino coats? \_\_\_\_\_

8. What percentage of the offspring will have a homozygous genotype? \_\_\_\_\_

Palomino Cream

**Dd** × **dd**



9. What percentage of the offspring will have a heterozygous genotype? \_\_\_\_\_

10. What percentage of the offspring will have cream coats? \_\_\_\_\_