

BLOOD TYPE AND INHERITANCE

In blood typing, the gene for type A and the gene for type B are codominant. The gene for type O is recessive. Using Punnett squares, determine the possible blood types of the offspring when:

1. Father is type O, Mother is type O

_____ % O
 _____ % A
 _____ % B
 _____ % AB

2. Father is type A, homozygous; Mother is type B, homozygous

_____ % O
 _____ % A
 _____ % B
 _____ % AB

3. Father is type A, heterozygous; Mother is type B, heterozygous

_____ % O
 _____ % A
 _____ % B
 _____ % AB

4. Father is type O, Mother is type AB

_____ % O
 _____ % A
 _____ % B
 _____ % AB

5. Father and Mother are both type AB

_____ % O
 _____ % A
 _____ % B
 _____ % AB