

CODOMINANCE AND INDEPENDENT DOMINANCE

4. A man with type B blood marries a woman with type A blood. Their first child has type O blood. The man says this is impossible and accuses his wife of infidelity.
 - a. Is it possible for these two people to produce a type O child?
 - b. What are the genotypes of both parents?
 - c. What are the genotypic and phenotypic ratios of the offspring?

5. A woman names her former boyfriend in a paternity suit. Her child is blood type A. The woman has blood type AB. The accused man has blood type B.
 - a. Is it possible for this man to be the child's father? Draw a Punnet square to defend your answer.
 - b. Does this evidence provide positive proof in this case?
 - c. Suppose the woman had blood type O. Is it possible for the man to be the father of the child? Why or why not?