

Blood Type Practice Problems:

The genotypes for blood type are as follows:

Type A	blood	$I^A I^A$ or $I^A i$
Type B	blood	$I^B I^B$ or $I^B i$
Type AB	blood	$I^A I^B$
Type O	blood	ii

1. If a man with blood type O has a child with a woman with blood type AB, what is the probability that they will have a child with blood type AB?
2. Is it possible for a man with blood type A and a woman with blood type B to have a child that is blood type O? Show how this is possible by making a punnett square.
3. A woman with blood type B is claiming that a particular man is the father of her child. The man in question has blood type A. The child has blood type B. Could the man be the father? Explain.