

BLOOD TYPE PROBLEMS

1. A man who is homozygous for type A blood marries a woman who is heterozygous for type B blood. Give the genotypes and phenotype ratios of their possible offspring.
2. A man of type A blood marries a type B woman and their first child is type O. Is this possible? _____. If so, what other blood types might show up in future children?
3. Mary (type B blood) claims her child (type A) was fathered by Frank. The judge has Frank's blood typed and he turns out to be type AB. Is he definitely the father? Could he be the father? Explain both answers.
4. A man heterozygous for type A blood marries a woman of type AB. List the possible genotypes and give the phenotype ratios of their offspring.
5. If a person has type B blood what are the possibilities as to his genotypes?
6. If a person with type B blood marries a type AB what are the possibilities and odds for the blood types of their children?
7. Are there any blood types the above pair couldn't produce?
8. Debbie (type AB) had a baby girl (type B) just nine months after divorcing Phil (type O) and eight and a half months after marrying Ted (type A). Should she sue Phil for child support?