1. If the mother of a child is blood type O+ and the child is A-, what blood type would the father be?
   a) A or O
   b) A or AB
   c) B or O
   d) O

2. Hemophilia in humans is inherited as an X linked recessive trait. Hemophilia is a disease whereby blood does not clot properly. A woman whose father is hemophiliac marries a man with normal clotting ability. What is the probability that her first child will have hemophilia if the disease is considered non-lethal? Assume that the woman’s mother is homozygous dominant.

Suppose if the disease was considered LETHAL, what would be the probability of the woman and her husband having a child that is a carrier for hemophilia?