In Drosophila melanogaster, the allele **n** gives notched wings while the wildtype allele **n+** gives normal wings. At a separate gene, the allele **sb** gives stubby legs while wildtype **sb+** allele gives normal legs. At a third gene, the allele **w** gives white eyes while wildtype **w+** allele gives red eyes. A female individual heterozygous for these three genes is test crossed and 2000 progeny are produced. They are classified as follows:

12 n+, sb+, w+  
10 n, sb, w  
136 n+, sb, w  
132 n, sb+, w+  
760 n+, sb+, w  
750 n, sb, w+  
97 n+, sb, w+  
103 n, sb+, w

a) Write out the genotype of the triply heterozygous mother (ie. Draw the alleles in their proper order on the two chromosomes of the triple heterozygote). Explain your reasoning with respect to the frequencies of the different classes of progeny produced.