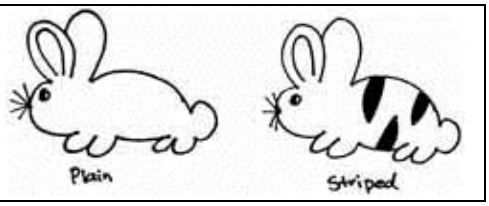
Mabbit Mating Practice Problems

In mabbits, the gene controlling stripped fur is dominant over the gene controlling plain fur. The stripped fur gene is represent by a S The plain fur gene is represented by a s	

Create a testcross for each of the mabbit mating problems below.

1) A striped mabbit with the genotype Ss mates with another striped mabbit with genotype Ss.
   a) What are the genotypes and their ratios of all the possible offspring from this mating pair?
   b) What are the phenotypes and their ratios of all the possible offspring from this mating pair?

2) A striped mabbit with the genotype Ss mates with a plain mabbit with genotype ss.
   a) What are the genotypes and their ratios of all the possible offspring from this mating pair?
   b) What are the phenotypes and their ratios of all the possible offspring from this mating pair?

3) A heterozygous striped mabbit mates with another heterozygous striped mabbit.
   a) What is the chance of producing a homozygous dominant mabbit?
   b) What is the phenotype of the homozygous dominant mabbit?

4) A heterozygous striped mabbit mates with a homozygous recessive plain mabbit.
   c) What is the chance of producing a stripped mabbit?
   d) What is the chance of producing a plain mabbit?

Vocabulary List for Cornell Note Taking (or make a table)

Vocabulary Word	**Definition**	**Examples**
Gene		
Allele		
Dominant Gene		
Recessive Gene		
Genotype		
Phenotype		
Homozygous Dominant		
Homozygous Recessive		
Heterozygous		