

Name: \_\_\_\_\_

Beardedness is controlled by a single gene with two alleles that is found on the X chromosome. If beardedness is dominant and non beardedness is recessive what would be the expected genotypic and phenotypic ratios if: (note the people first language)

1. A woman who is heterozygous for beardedness crossed with a man who was non-bearded?

2. A woman who is homozygous recessive crosses with a man who is bearded

Let us also imagine that length of eyebrow hair is controlled by a single gene with two alleles. Bushy eyebrows are dominant **E** and little eyebrows **e** are recessive

3. Cross a woman who is heterozygous for eyebrows with a man who is heterozygous for eyebrows. Give the genotypic and phenotypic ratios of their possible children.

On the Back

**4. Cross a woman who is heterozygous for beardedness and heterozygous for eyebrows with a man who is homozygous recessive for eyebrows and non-bearded.**