

X Linked Genetics

Name _____

Calico is a coat color found on cats, which is caused by a SEX-Linked, CODOMINANT allele. B= black, R = orange, BR = calico

Female cats can be black $X^B X^B$, orange $X^R X^R$ or calico $X^B X^R$

Male cats may only be black $X^B Y$ or orange $X^R Y$



Show each of the crosses below. Include the phenotypic ratios.

1. A black male crossed with an orange female.

2. A orange male crossed with a calico female.

3. A black male crossed with a black female

4. A orange male crossed with a orange female

5. A black male crossed with a calico female

****If you are a cat breeder, what type of parents should you have to get the MOST number of calico kittens?**