

Calico Cat Genetics Answer Key

Calico is a coat color found in cats, which is caused by a SEX-LINKED, CODOMINANT allele.

B = Black

R = oRange

BR = calico

The following genotypes are possible;

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

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

Show each of the crosses below and include the phenotypic ratios of the offspring.

1. A black male crossed with an orange female

2. An orange male crossed with a calico female

3. A black male crossed with a black female

4. An orange male crossed with an orange female

5. A black male crossed with a calico female

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