

X-LINKED GENETICS IN THE CALICO CAT

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

Female cats can be: black $X^B X^B$ orange $X^R X^R$ calico $X^B X^R$
 Male cats may only be: black $X^B Y$ orange $X^R Y$

1. A black male is crossed with an orange female:

	X^B	Y
X^R		
X^R		

How many kittens are: orange males?
 _____ calico females? _____



2. An orange male is crossed with a calico female. Show the Punnett square and list the phenotypes and proportions.

3. A black male is crossed with a black female. Show the Punnett square and list the phenotypes and proportions.

4. A black male is crossed with a calico female. Show the Punnett square and list the phenotypes and proportions.