Name:

## **X-LINKED GENETICS IN THE CALICO CAT**

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

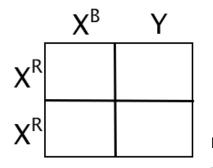
Female cats can be: Male cats may only be:

black

black X<sup>B</sup> X<sup>B</sup> orange X<sup>R</sup> X<sup>R</sup> black X<sup>B</sup>Y orange X<sup>R</sup> Y

calico X<sup>B</sup>X<sup>R</sup>

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



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.