## **Sex-Linked Review Worksheet**

KEY

Calico is a coat color found in cats, which is caused by a sex-linked, co-dominant allele/ B= black, R= orange, BR= calico

The following genotypes are possible:

- Female cats can be black X<sup>B</sup>X<sup>B</sup>, orange X<sup>R</sup>X<sup>R</sup>, or calico X<sup>B</sup>X<sup>R</sup>
- Male cats can be black X<sup>B</sup>Y or orange X<sup>R</sup>Y

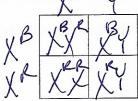
Show each of the crosses below and include the phenotypic rations of the offspring.

1. A black male crossed with an orange female.



2 orange male 2 calico females

2. An orange male crossed with a calico female.



1 orange male

3. A black male crossed with a black female.



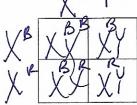
2 Black femle 2 Black male

4. An orange male crossed with an orange female.



2 orang mail

5. A black male crossed with a calico female.



one black fund one calico femal one black mal one orange male

In humans, hemophilia is a sex-lincarriers for the trait. Males will eith XHXH: normal female XHXh: female who is a carried \( \lambda X^hX^h: female with hemophility)		won't ever be carriers.
XII XX XY Carrier.	ss of a man who has hemophilia with	
X XX XY	obability that their children will have	the disease? <u>)</u> /
XH Y 2 Awaman who	Calculate Scales	
10 1116 U	is a carrier marries a normal man. Show What is the probability that their chi What sex will a child in the family wi	
3 A woman who has hemophilia	marries a normal man. Draw a punn How many of their children will ha is their sex?	
		Y.X
XXX	and the same of	YA BARA
Xh XH/h Xh/Y Xh Xh/Y		