

Name Key

GENETICS: X LINKED GENES

****In fruit flies, eye color is a sex linked trait. Red is dominant to white ****

1. What are the sexes and eye colors of flies with the following genotypes:

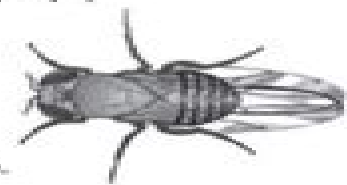
$X^R X^r$ red female $X^R Y$ red male $X^r X^r$ white female
 $X^R X^R$ red female $X^r Y$ white male

2. What are the genotypes of these flies:

white eyed, male $X^r Y$ red eyed female (heterozygous) $X^R X^r$
 white eyed, female $X^r X^r$ red eyed, male $X^R Y$

3. Show the cross of a white eyed female $X^r X^r$ with a red-eyed male $X^R Y$.

	X^r	X^r
X^R	$X^R X^r$	$X^R X^r$
Y	$X^r Y$	$X^r Y$



4. Show a cross between a pure red eyed female and a white eyed male. What are the genotypes of the parents:

$X^R X^R$ & $X^r Y$

	X^R	X^R
X^r	$X^R X^r$	$X^R X^r$
Y	$X^r Y$	$X^r Y$

How many are:
 white eyed, male 0
 white eyed, female 0
 red eyed, male 2
 red eyed, female 2

5. Show the cross of a red eyed female (heterozygous) and a red eyed male. What are the genotypes of the parents?

$X^R X^r$ & $X^R Y$

	X^R	X^r
X^R	$X^R X^R$	$X^R X^r$
Y	$X^R Y$	$X^r Y$

How many are:
 white eyed, male 1
 white eyed, female 0
 red eyed, male 1
 red eyed, female 2

Math: What if in the above cross, 100 males were produced and 200 females. How many total red-eyed flies would there be?
250

6. In humans, hemophilia is a sex linked trait. Males will either have the disease or not (but they won't ever be carriers) Females can be normal, carriers, or have the disease

Genetics X Linked Genes Answer Key

Ensheng Dong



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