

**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  $X^R Y$  Red  $X^r X^r$  White  
 $X^R X^R$  Red  $X^r Y$  White

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 offspring are:

- white eyed, male 0
- white eyed, female 0
- red eyed, male 50%
- red eyed, female 50%

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 offspring are:

- white eyed, male 25%
- white eyed, female 0
- red eyed, male 25%
- red eyed, female 50%

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

# Answer Key To Mastering Genetics

**RS Peters**



## **Answer Key To Mastering Genetics:**

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