

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 Smileys Genetics

AW Rasmussen



Answer Key To Smileys Genetics:

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Atoms, Bytes and Genes Martin W. Bauer, 2015-02-11 Atom byte and gene are metonymies for techno scientific developments of the 20th century nuclear power computing and genetic engineering Resistance continues to challenge these developments in public opinion This book traces historical debates over atoms bytes and genes which raised controversy with consequences and argues that public opinion is a factor of the development of modern techno science The level and scope of public controversy is an index of resistance examined here with a pain analogy which shows that just as pain impacts movement resistance impacts techno scientific mobilization it signals that something is wrong and this requires attention elaboration and a response to the challenge This analysis shows how different fields of enquiry deal with the resistance of social psychological mentalities in the face of industrial scientific and political activities inspired by projected futures

Strategies to Integrate the Arts in Science Vivian Poey, Nicole Weber, Gene Diaz, Sam Smiley, 2013-07-01 This teacher friendly resource provides practical arts based strategies for classroom teachers to use in teaching science content

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