

SEX-LINKED TRAITS PRACTICE SHEET – FRUIT FLIES

Name: _____

Date: _____

****In fruit flies, eye colour is a sex-linked trait. Red is dominant, **R**, to white, **r**.****

1. What are the sexes (genders) and eye colours of flies with the following genotypes?

$X^R X^r$ _____

$X^R Y$ _____

$X^r X^r$ _____

$X^R X^R$ _____

$X^r Y$ _____

2. What are the genotypes of these flies:

white eyed, male _____

red eyed female (heterozygous) _____

white eyed, female _____

red eyed, male _____

3. a. Show a cross between a pure red eyed female and a white eyed male.

b. What are the genotypes of the parents? _____ and _____

How many are:

white eyed, male _____

red eyed, male _____

white eyed, female _____

red eyed, female _____