	Name:
	Date:
Sex Linked Inheritance	Block:
1) What are the sex chromosomes of a female?	
2) What are the sex chromosomes of a male?	
3) A couple has had three girls what is the chance the	e fourth will be a boy?
4) Can boys inherited colour blindness from their fath	ners? Why?
5) Who determines the sex of the baby? Why?	
6) What is sex linked inheritance?	
7) A non colourblind male marries a carrier female (h their child will be colourblind?	etrozygous). What is the chance
For questions 8-11 use the following statement; in frutrait where red (R) is dominant to white (r).	uit flies eye colour is a sex linked
8) What are the sexes and eye colours of flies with the	ne following genotypes?
a) X <sup>R</sup> X <sup>r</sup>	
b) X <sup>R</sup> Y	
c) X <sup>R</sup> X <sup>R</sup>	
d) X'Y	

9) What are the genotypes of:
a) white eyed male
b) red eyed female (heterozygous)
c) white eyed female
d) red eyed male
10) Show the punnett square for crossing a white eyed female and a red eyed male. What are the resulting phenotypes (gender and eye colour)?
11) Show the Punnett square for crossing a red eyed female (heterozygous) and a red eyed male. What are the resulting phenotypes (gender and eye colour)?
<ul><li>12) In humans hemophilia is a sex linked trait (h). Females can be normal, carriers or have the disease. Males will either have the disease or not.</li><li>a) Is this disease dominant or recessive?</li></ul>
b) What is genotype for a male WITH the disease What is the genotype of a female who is a carrier
c) Show a Punnett square for a male who has the disease and a female who is a carrier.
d) What is the probability that their children will have the disease?