Name:	Date:
	Sex-Linked Traits
Sex-linked: Traits that are shown of X= female chromosome *sex-linked genes are carried on	Y= male chromosome
**the 2 sex-linked traits in humans	s are hemophilia and color-blindness.
	nophilia, a protein necessary for blood clotting is missing. People in from a minor cut, and can suffer internal bleeding from small
Color-blindness: Inability to see or distingui	sh certain colors. This is a recessive gene.
*What is a <u>carrier</u> ?  A carrier is an organism when the carrier is a carrier in the carrier in the carrier is a carrier in the carrier in the carrier is a carrier in the carrier	ho has the allele for a certain trait, but does NOT show the trait.
Example:  Cross a red-eyed female from	uit fly (R) with a white-eyed male (W).
$P = X^R X^r \times X^r Y$	$X^R$ $X^R$
100% Red-eyed 50% males 50% females Y	a latindecome Lanuvahran and
Practice Problem:	T.R. T.
Cross a mother who carries father $(X^RY)$ .	s the colorblind gene but doesn't show it (X <sup>R</sup> X <sup>r</sup> ), and a normal
P=x	Phenotypes:
Genotypes:	
Phenotypes:	

Name: 1918CI	Date:
Practice Problem 2:  Cross a mother with hemophilia (h) with a normal	
Y = male chromosome x = P	X= female chromosome  X= female chromosome  A separate carrier  A
Genotypes:	c od di s
Phenotypes: Ismatin within the base base and the more districted and the more	
Practice problem 3:  Cross a colorblind mother(r) with a normal father	nemalb to
who has the allele for a certain trait, but $d(x \in N(YT \times A)) = P$	ane i lagga
Genotypes: (W) slam boys-stirly a this (S) vil hard a	o pinet b
Phenotypes:	
Practice Problem 4:	boyo-bost 80001 solam 8000
Cross a mother who carries the hemophilia gene hemophilia.	but does not express it, with a father with
P=x	
Genotypes: It works to associate and an against desired and an against desired and an against desired and against desired against desired and against desired against desired and against desired against desi	Practice Problem: Cross a mother who cut father (X <sup>R</sup> Y).
Phenotypes:	X =q
	Génotypes: