

Bell Work

Turn in your
worksheet from
Friday!

January 22nd

Tall is dominant over short in pea plants. Cross a heterozygous tall pea plant with a short pea plant.

tall short

1. What are the phenotypes of the parents?

2. What are the genotypes of the parents?

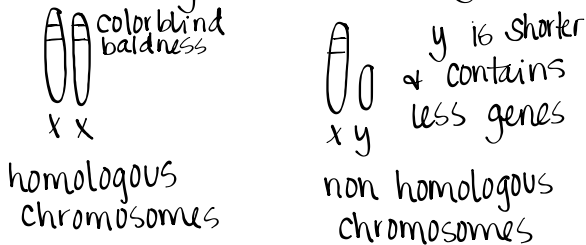
3. What alleles are in the gametes?

4. What is the probability of phenotypes for their offspring?

Sex-linked Traits

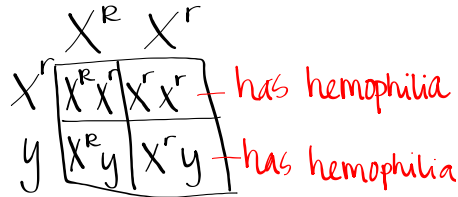
: traits located on the sex chromosomes
 - specifically found on X chromosome

female: XX ; only pass X to offspring
 male: XY ; can pass X or Y to offspring



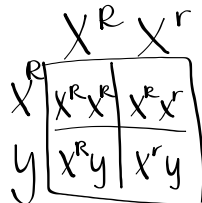
examples: red-green colorblindness
 baldness
 hemophilia
 S.C.I.D

cross a heterozygous woman w/ a man who has hemophilia (recessive)



- males only need to inherit 1 allele to have the trait
- only females are carriers of sex-linked traits

cross a heterozygous female w/ a male who is not colorblind (recessive)



Probability

having a colorblind child?

$\frac{1}{4} = 25\%$

having a son who is colorblind

$\frac{1}{2} = 50\%$