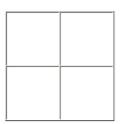
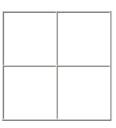
PROBABILITY AND HEREDITY -Activity 2

Practice with Crosses. Show all work! SHOW ALL WORK!

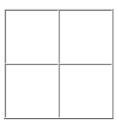
5. A **TT** (tall) plant is crossed with a **tt** (short plant). What percentage of the offspring will be tall?



6. A **Tt** plant is crossed with a **Tt** plant. What percentage of the offspring will be short?



7. A heterozygous round seeded plant (**Rr**) is crossed with a homozygous round seeded plant (**RR**). What percentage of the offspring will be homozygous (**RR**)? _____



8. A *homozygous* round seeded plant is crossed with a *homozygous* wrinkled seeded plant.

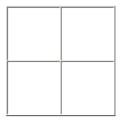
What are the genotypes of the parents?

_____ X _____

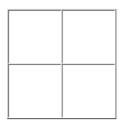
What percentage of the offspring will also be homozygous?

9. In pea plants purple flowers are dominant to white flowers.

If two white flowered plants are crossed, what percentage of their offspring will be white flowered?



10. A white flowered plant is crossed with a plant that is heterozygous for the trait. What percentage of the offspring will have purple flowers?_____



11. Two plants, both heterozygous for the gene that controls flower color are crossed.

What percentage of their offspring will have purple flowers? _____

What percentage will have white flowers?

12. In guinea pigs, the allele for short hair is dominant.

What genotype would a *heterozygous short haired* guinea pig

have?

What genotype would a *purebred short haired* guinea pig

have?

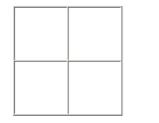
What genotype would a *long haired* guinea pig have? _____



13. Show the cross for a pure breeding short haired guinea pig and a long haired guinea pig. What percentage of the offspring will have short hair?



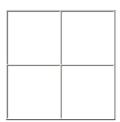
14. Show the cross for two heterozygous guinea pigs.



What percentage of the offspring will have short hair?

What percentage of the offspring will have long hair? _____

15. Show the cross for two homozygous recessive guinea pigs.



What percentage of the offspring will have short hair? _____

What percentage of the offspring will have long hair? _____