Period:	
ictíce Problems	
Ii Mm Jj nn kk oo LL Pp	
e what phenotypes would be possible. Brown eyes are dominant to blue eye BB Bb	es
Bobtails in cats are recessive to long tails. TT Tt	
Pointed heads are dominant to round heads. pointed pointed	
1	Ii Mm Jj nn kk oo LL Pp e what phenotypes would be possible. Brown eyes are dominant to blue eye BB bb Bobtails in cats are recessive to long tails. TT Tt tt pes (remember to use the letter of the epice of the

Rr x rr		What percentage of the offspring will be round?
RR x rr		What percentage of the offspring will be round?
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Practice with Cr	osses.	Show all work!
5. A TT (tall) plar plant).	nt is crossed with	a tt (short
What percertall?	ntage of the offsp	oring will be
6. A Tt plant is cr	ossed with a Tt p	plant.
What percer short?	ntage of the offsp ——	oring will be
4 19		

4. Set up the Punnet squares for each of the crosses listed below. Round seeds are dominant to wrinkled seeds.

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?
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 cross, what percentage of their offspring will be white flowered?
10. A white flowered plantis 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 purebreeding 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. Two short haired guinea pigs are mated several times. Out of 100 offspring, 25 of them have long hair. What are the probable genotypes of the parents?
X
Show the cross to prove it!