Name	e:	Date:
Life S	cience	Period:
Genet	tics	
	punnett sq	uare practice
Th	_	e length of the whiskers has two alleles. hiskers and the recessive allele (w) codes
	a cross of two long-whiskered se	ng offspring that have short whiskers from als, one that is <i>homozygous dominant</i> and your work on the punnett square.
		% long whiskers% short whiskers
		ous long-whisker and the other is short- that the offspring will have short
		% long whiskers% short whiskers
Co	omplete the punnett square to show t	s dominant and no horns (h) is recessive. the cross of <i>two hybrid</i> purple people I phenotypes of the possible offspring.
		Possible genotypes of offspring:
		Possible phenotypes of offspring:

<ol> <li>Set up the Punnet squares for each of the crosses listed below.</li> <li>Round seeds are dominant to wrinkled seeds.</li> </ol>				
Rr x rr		What percentage of the offspring will be round?		
RR x rr		What percentage of the offspring will be round?		
RR x Rr		What percentage of the offspring will be round?		
Rr x Rr		What percentage of the offspring will be round?		
Practice with C	Crosses.	Show all work!		
5. A TT (tall) plant).	ant is crossed with	a tt (short		
	entage of the offsp	oring will be		
6. A Tt plant is crossed with a Tt plant.				
What percent short?	entage of the offsp	oring will be		

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)?	
3. 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 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 <b>allele for short hair</b> 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?		
Show the cross to prove it!		