Name:			Period:	
Genetics Rev	view Worksheet -	Unit Test on V	Vednesday or Thursday	
1. For each geno	type below, indicate whe	ther it is heterozygo	ous (He) or homozygous (Ho)	
AA	Ee	Ii	Mm	
Bb	ff	Jj	nn	
Cc	Gg	kk	00	
DD	HH	LL	Pp	
2. For each o possible.	of the genotypes be	low determine	what phenotypes would be	
Purple flowers are dominant to white flowers. PP Pp		hite Brown eye	Brown eyes are dominant to blue eyes	
		BB	BB	
			Bb	
nn		bb		
Round seeds are dominant to wrinkled seeds. RRRrRrRrRrRrRrRrRrRrRRRrRrRrRrRrRrRrRrRrRrRrRrRrRrRr		Bobtails in	Bobtails in cats are recessive.	
		тт		
		Tt		
		tt	tt	
rr				
	henotype below, li r the characteristic)	st the genotyp	es (use the letter of the	
Straight hair i curly.	is dominant to	Pointed heads heads.	are dominant to round	
straight		pointed		
straight		pointed	pointed	
curly		round	round	

Name:	Period:			
4. Set up the Punnet squares for each of the crosses listed below. Round seeds are dominant to wrinkled seeds.				
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 Crosses. Show all work!				
5. A TT (tall) plant is crossed with a tt (short plant).				
What percentage of the offspring will be tall?				

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? _____

Name:	Period:
7. A heterozygous round seeded plant (Rr) is crossed round seeded plant (RR).	with a homozygous
What percentage of the offspring will be homozygous	(RR)?
8. A homozygous round seeded plant is crossed with a wrinkled seeded plant.	a homozygous
What are the genotypes of the parents?	x
What percentage of the offspring will also be homozyg	jous?
9. In pea plants purple flowers are dominant to white	flowers.
If two white flowered plants are cross, what percentag	e of their offspring will
be white flowered?	
10. A white flowered plantis crossed with a plant that	is heterozygous for
the trait.	, 5
What percentage of the offspring will have purple flow	ers?
11. Two plants, both heterozygous for the gene that care crossed.	controls flower color
What percentage of their offspring will have purple flow	wers?
What percentage will have white flowers?	

Name:	Period:
12. In guinea pigs, the allele for sho	rt hair is dominant.
What genotype would a heterozygous	s short haired guinea pig have?
What genotype would a purebreeding	g short haired guinea pig have?
What genotype would a long haired of	guinea pig have?
13. Show the cross for a pure breed haired guinea pig.	ing short haired guinea pig and a long
What percentage of the offspring will	have short hair?
14. Show the cross for two heterozyg	gous 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 offspring, 25 of them have long hair. the parents?	
X	Show the cross to prove it!