Name: Date: _			Peri	od:
INDEPENDENT PRACTICE: Pur	nett S	quare	S	
Define <i>homozygous</i>				
Define <i>heterozygous</i>				
Circle the following genotype(s) that are homozygous :	ВВ	Bb	bb	
Circle the following genotype(s) that are heterozygous	: BB	Bb	bb	
Use the information above to answer the following				
questions and to complete the table below.	Allele	Ι	Trait	Type
1. What is the genotype of an animal that is	G	Sol	lid gray fur	Type Dominant
homozygous dominant for tail length?	g	 	ped gray fur	Recessive
What would this animal's phenotype be?	В	<u> </u>	reen eyes	Dominant
	b	1	Blue Eyes	Recessive
2. What is the genotype of an animal that is	Т		Long tail	Dominant
homozygous recessive for ear size?	t	5	Short tail	Recessive
What would this animal's phenotype be?	Е	Li	arge ears	Dominant
, ,,	е	S	mall ears	Recessive
3. What is the genotype of an animal that is homozygo What would this animal's phenotype be? 4. What is the genotype of an animal that is heterozygo What would this animal's phenotype be? 5. What is the genotype of an animal that is heterozygo What would this animal's phenotype be? Complete the table below for the rest of these genotype	ous for ta	ail length	n? ?	.
,		,,,		

Description	Genotype	Phenotype
Heterozygous for fur		
Homozygous recessive for fur		
Homozygous dominant for eye color		
Heterozygous for tail length		
Homozygous dominant for ear size		
Heterozygous for ear size		
Homozygous dominant for fur		
Homozygous recessive for tail length		
Homozygous for blue eyes		

Complete the following Punnett squares and answer the questions go with each pair. Use the table of information below to answer questions 1-4.

	Туре	1. Gg (♂) x Gg (♀)
Green feathers	Dominant	What is the ratio of green
Yellow feathers	Recessive	feathers to yellow feathers
Long beak	Dominant	
Short beak	Recessive	
G(♂) x Gg (♀) centage of will be ous recessive?	3. A male which has a short beak is crossed with a female that is heterozygous for beak length. What percentage of	4. LI (♂) x LI (♀) What percentage of offsprir will have long beaks?
	offspring will have short beaks?	
formation for 5-9 on this page. Trait		
Trait		
Trait Tall Short	beaks?	6. pp (♂) x Pp (♀)
Trait Tall Short Smooth peas		6. pp (♂) x Pp (♀) What percentage of offspr
Trait Tall Short	beaks? 5. Ss (♂) x ss (♀)	6. pp (♂) x Pp (♀) What percentage of offspr will have white flowers?
	Short beak Short beak G(♂) x Gg(♀) Sentage of will be	Short beak Recessive 3. A male which has a short beak is crossed with a female will be Short beak is heterozygous for beak

7. A plant which is short is crossed with a plant that is homozygous dominant for height. What percentage of plants will be short?

8. Two plants which are heterozygous for pea shape are crossed with each other. What percentage of plants will have wrinkled peas?

have purple flowers?

9. A plant which is homozygous

a plant that has white flowers.

for purple flowers is crossed with

What percentage of offspring will