

Genetic Inheritance Practice

Name _____
 Date _____
 Period _____

Part 1 - Study the genotype of the parent plants. Draw their phenotype.

Parent Genotype

Female		Geno	Pheno	Male		Geno	Pheno
S	Homozygous Dominant			Homozygous Recessive			
U	Homozygous Dominant			Homozygous Recessive			
T	Homozygous Recessive			Homozygous Dominant			
B	Homozygous Recessive			Homozygous Dominant			
D	Homozygous Dominant			Homozygous Recessive			

Trait Key

S = yellow petal	s = red petal
U = 6 petals	u = 4 petals
T = brown center	t = red center
B = spots on petals	b = no spots
D = leaves	d = no leaves

Female phenotype



Male phenotype



Part 2 – Write the genotype of the offspring plant and draw the phenotype.

Offspring phenotype Drawing

Genotype (One Allele from MOM, One from DAD)		Phenotype (Physical Look)
S		
U		
T		
B		
D		




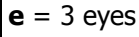

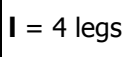
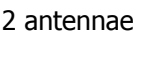
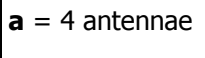
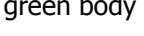



Part 1 - Study the genotype of the parent bugs. Draw their phenotype.

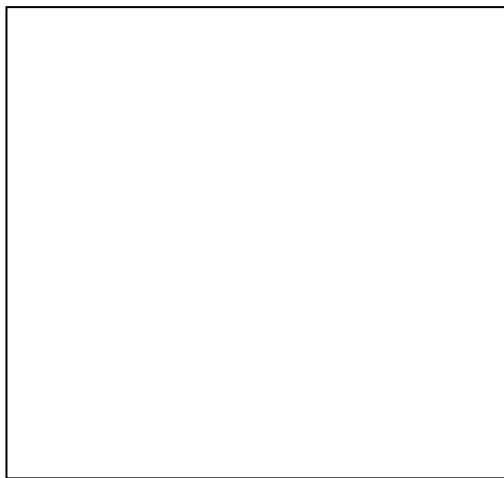
Parent Genotype

Female		Geno	Pheno	Male		Geno	Pheno
B	Heterozygous			Homozygous Recessive			
E	Heterozygous			Heterozygous			
L	Homozygous Recessive			Homozygous Dominant			
A	Heterozygous			Homozygous Recessive			
G	Homozygous Dominant			Heterozygous			

Trait Key

B = 2 body segments 	b = 3 body segments 
E = 2 eyes 	e = 3 eyes 
L = six legs 	l = 4 legs 
A = 2 antennae 	a = 4 antennae 
G = green body 	g = orange body 

Female phenotype



Male phenotype



Part 2 – Write the genotype of the offspring plant and draw the phenotype

You will need to flip a coin for the heterozygous alleles from the parents to see which one moves to the offspring.

Genotype		Phenotype
B		
E		
L		
A		
G		

Offspring Phenotype Drawing

