	110	n-Mendenan Genetics Fractic	ie .
eterozygous g how. This is ca Howev partially sho enotypes allow	enotype, the dominant allel alled complete dominance er, some alleles don't comp w by blending together how	oletely dominate others. In fact, some het withey are expressed. This is called <u>incor</u> tiely <u>expressed at the same time like spots</u>	ssive allele gets covered up and doesn't terozygous genotypes allow both alleles nplete dominance. Other heterozygous
1. If a rec	d (RR) flower and a whit	pe would look like based on the genore e (rr) flower were crossed, resulting in f complete dominance?	7.7
		e (rr) flower were crossed, resulting is rules of incomplete dominance ?	n 100% Rr, what phenotype(s)
	d (RR) flower and a whit be seen according to the	e (rr) flower were crossed, resulting i rules of codominance ?	n 100% Rr, what phenotype(s)
napdragons ar omozygous do	re incompletely dominant forminant, the white flowers	the questions below, use the following in or color. They have phenotypes red, pink are homozygous recessive, and the pink motypes below using the letters "R" a	, or white. The red flowers are flowers are heterozygous.
4. red sna	apdragon genotype:	pink snapdragon genotype:	white snapdragon genotype:
	e of offspring of each col	wing snapdragon parents using the F or below. red x white	Punnett squares provided, and record



__ Period:____ Date:___

<u>Codominance practice</u>: For the questions below, use the following information: In Smileys, eye shape can be starred (SS), circular (CC) or a circle with a star (CS).

Give the genotypes for the pictured phenotypes.

7.







Show genetic crosses between the following Smiley parents using the Punnett squares provided and record the number of offspring displaying each phenotype.

star-eyed x circle-eye	circle-eyed	star-eyed	8.
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circle-star eyed x circle-star eyed



9.	Phenotypes of offspring:	
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C	- C - CC'	
trenotypes	s of offspring:	

How many offspring are circle-eyed? _____

How many offspring are circle-star eyed? _____

How many offspring are star-eyed?

Human blood types are determined by genes that follow **codominance** patterns of inheritance. There are two dominant alleles, A and B, and one recessive allele, O.

Blood Type (phenotype)	Genotype	Can donate blood to:	Can receive blood from:
О	ii (OO)	A, B, AB, and O (universal donor)	0
AB	I ^A I ^B (AB)	AB	A, B, AB, and O (universal recipient)
A	I ^A I ^A or I ^A i (AO)	AB, A	O, A
В	I ^B I ^B or I ^B i (BO)	AB, B	O, B



10. Write	the genotype for each person based on the informati	on in the chart above.
a.	Homozygous Type B blood	
b.	Heterozygous Type A blood	
c.	Type O blood	
d.	Type AB blood	
e.	Can there be a homozygous Type AB?	
_	lete the Punnett square showing all the possible blocher and a Type AB father.	od types for the offspring produced by a Type
a.	How many offspring will be Type O?	
b.	How many offspring will be Type A?	
c.	How many offspring will be Type B?	
d.	How many offspring will be Type AB?	
Sex-Linked I	nheritance	
chromosome. allele. Females carriers. Male In humans, col-	coded for by genes located on the sex chromosomes. Mo In order for a <u>female</u> to express a recessive sex-linked tra who inherit one recessive allele and one dominant allele sonly need to inherit one copy of the recessive gene in our or blindness is a sex-linked trait located on the X chromo of the color blind (X ^b X ^b). Males will either be color blind	tit, she must inherit two copies of the recessive do not express the recessive trait and are called order to express the trait.
Show genetic c	rosses of individuals with or without color blindness.	
12. color b	lind man x normal vision woman	normal vision man x carrier woman
13. Probab	oility of color blind girls:	Probability of color blind girls:
14. Probab	pility of color blind boys:	Probability of color blind boys:
15. Can m	ales be carriers of sex-linked traits?	

