Name _			Date	Period
	Complex Inheritance	- Incompl	ete Dominance and	Codominance
1.	When a trait is not completely domi	inant or recessiv	e, we describe this type of inho	eritance as being
2.	Many genetic traits have a stronger dominance. What if a trait, howeve Summarize the difference between	r, is NOT comple		
	a. Incomplete dominance			
	b. Codominance			
3.	How do you complete this type of P	Punnett Square រុ	problem?	
4.	So, if a black mouse crossed with a a. Identify the type of inherital b. Write the genotypes for each	nce:	ads to a heterozygous grey m e	ouse
	Black	White	Grey	_
5.	Use the Punnett square below to sh		tween a <u>black mouse</u> and a <u>w</u> notype Probability (%):	rhite mouse.
		b. Ph	enotype Probability (%):	
		c. Ge	notype/Phenotype Ratio	::
6.	Use the Punnett square to the right a. Genotype Probability (%):	to show the cro	ss between <u>two grey mice</u> .	
	b.Phenotype Probability (%):			
	c. Genotype/Phenotype Ratio	:	::	

7. If a <u>red poinsettia</u> crossed w a. Identify the type of i	ith a white poinsettia leads to a candy cane p Inheritance:	oinsettia with both red AND white
b. Write the <i>phenotype</i>	e for each <i>genotype</i> .	
R R	W W R W	
8. Use the Punnett square belo	w to show the cross between a white poinset a. Genotype Probability (%):	tia and a candy cane mouse .
	b. Phenotype Probability (%)	;
	9. Genotype/Phenotype Ratio	::
speckled with both black AN	nzygous genotype leads to a phenotype knowr D white. The allele for Black is B and the allele If which inheritance pattern (<i>incomplete domin</i>	for white is W.
	enotype below, identify the genotype.	
Black Chickens	White Chickens	Erminette Chickens
11. A black chicken is crossed wi a. Genotype Probability		
b.Phenotype Probabili	ty (%):	
c. Genotype/Phenotyp	e Ratio:::	
12. A <i>white chicken</i> is crossed w	ith an <i>erminette chicken</i> . a. Genotype Probability (%):	
	b. Phenotype Probability (%):	
	c. Genotype/Phenotype Ratio	::

a. Genotype Probability (%)	:	
b.Phenotype Probability (%	5):	
c. Genotype/Phenotype Ra	tio::	
14. In snapdragons, flower color is co and the allele for white is W.	ontrolled by <u>incomplete dominance</u> . The a	allele for red is R
_	mpletely dominant, what would be the ph RW)?	nenotype for the
b. For each <i>phenotype</i> below Red Genotype:		
15. A <i>pink flowered snapdragon</i> is contact as a second as Genotype Probability (%)	rossed with a white flowered snapdragor :	ı.
b.Phenotype Probability (%	5):	
c. Genotype/Phenotype Ra	tio::	
	16. Edward is extremely romantic and of <i>pink snapdragons</i> , her favorite flower <i>snapdragons</i> in his greenhouse. In order <i>snapdragons</i> , what color flower should snapdragons? Show the punnett square a. This cross should produce	r to produce <i>the most number of pink</i> Edward cross with his red to defend your answer.
other pink snap dragons will only	use full of <i>pink snapdragons crossing wit</i> y make pink snapdragons! Edward uses a	h
punnett square to help her under	rstand the error of her ways e% <i>pink</i> snapdragons.	

13. Two *erminette chickens* are crossed.

18.	Hair color in certain breeds of horses ca	n be Brown (B),	White (W) or F	Palomino (<i>a <u>ta</u></i>	<u>ın</u> color resulti	ing from the				
	heterozygous genotype BW).									
	a. This is an example of which <i>inh</i>	eritance pattern	?							
	b. Write the <i>genotypes</i> for the following <i>phenotypes</i> .									
	Brown	Palomino		White						
				•••••• <u> </u>						
10	Can malamin as he asserted and a mountain	. d 1: f) Dafa ad							
19.	Can palominos be considered a purebre	ed line of norses:	r Defena your a	inswer with an	expianation.					
20.	Palomino horses are worth a great dea	-								
	you breed if you wanted to produce the	-	f palominos in t	the						
	shortest amount of time? Show the pur to defend your answer.	inett square		-						
	to determ your distress									
	Market State of the Control of the C	Continue to the		1.1	harad 20h					
21.	If you are a breeder with a male palam in order to produce the most number of po			-						
	and circle your best option(s) for the fe		nortest amoun	t of time: Sho	w the three pe	331616 6103363				
[
}										
	·			•						
22.	Research it! Use a device to find a real	life example of ea	ach complex pa	attern of inher	itance in huma	ans.				
		·								
	In complete Design			Co.d	ninance					
	Incomplete Dominance			Coaon	iinance					