Name:			Pe	r:	ey	_ Sec: 🔑	Date:	ley	
A. In fruit file	es, red-eyes i	s domin	M ant over pink	lonohybrid C eyes.	Crosse	S	<i>l</i>		
		Red	allele = <u>capi</u>	tolt Pink alle	ele= <u>10</u>	wer-cas	e'		
1. If you o	cross two het g will have re	erozygo	ous red-eyed	adults and 60 (Pink eyes?	offsprii	ng are the		ow mar	ny
2. If you o	cross a homo how many w	zygous ould be	red-eyed adı red-eyed?	ult to a pink-eye	ed hon v man	nozygous y pink?	adult and	d 25 off	spring
Prepare the offspring f	ne Punnet sq rom which yo	uares th ou base	nat would den d your answe	nonstrate the c rs.	rossin	g of the pa	arents an	d the re	esulting
	R	r				P	P		
P	.P	Pr		r	P	2r	pr	,	
rP	·ŗ	rr		r		2 r	Pr		
2	rx	Pr			P	p +	ı X <u>rr</u>		
B. Supposing	g brown eyes	in peop	ole (B) is dom	inant over blue	e (b) .				
1. Could	a marriage b	etween		d people resulter		oduce a b	rown-eye	d child'	?
2. Could a blue-	a marriage b eyed child?	etween	a homozygou	us brown-eyed	perso	n and a bl	ue-eyed _l	person	result in
3. Can two b	rown-eyed pe	eople ha		No (circle one) ed child?		s or No (ci	rcle one)	?	
Prepare the I offspring fron	Punnet squar n which you b	res that based ye	would demor our answers.	strate the cros	sing o	f the pare	nts and th	he resu	lting
<u> </u>	<u></u> b		В	B	_	B		b	
bb	bb	b	ВЬ	ВЬ	В	ВВ		ВЬ	
bb	bb	Ь	ВЬ	ВЬ	Ь	ВЬ		bb	
bb x	166		BB	x 66		86		16	

b b

2	Nome: KPY Per. Desk: KPY Sec. Date: KPY
	Bikini Bottom Genetics 36 Incomplete Dominance 36
	SpongeBob loves growing flowers for his pal Sandy! Her favorite flowers, Poofkins, are found in red, blue, and purple. Use the information provided and your knowledge of incomplete dominance to complete each section below.
	1. Write the correct genotype for each color if R represents a red gene and B represents a blue gene. Red - PP Blue - PB Purple - PB
L .	2. What would happen if SpongeBob crossed a Poofkin with red flowers with a Poofkin with blue flowers. Complete the Punnett square to determine the chances of each flower color.
B	(a) Give the genotypes and phenotypes for the offspring. PB - PUPPIE
B	H(b) How many of the plants would have red flowers?
	11 PR x BB
45	3. What would happen if SpongeBob crossed two Poofkins with purple flowers? Complete the Punnett square to show the probability for each flower color.
12	DP DB + (a) Give the genotypes and phenotypes for the offspring. DP DB DB DIVE DB PUPPIE F(b) How many of the plants would have red flowers? 25.6%
B	DB H(c) How many of the plants would have purple flowers?
	11 PB x PB
	4. What would happen if SpongeBob crossed a Poofkin with purple flowers with a Poofkin with blue flowers? Complete the Punnett square to show the probability for plants with each flower color.
r	B B (a) Give the genotypes and phenotypes for the offspring.
p	(b) If SpongeBob planted 100 seeds from this cross, how many should he expect to have of each color? Purple flowers - 50 Blue flowers - 50 Red flowers - 4
B	BB BB
L	1 BB x PB

Name:	Key		Per:	Desk: Ke	<u> </u>	_ Date: 	Ley
In some chick	/ ce Worksheet cens, the gene for white is F ^v	for feathe	er color is co en with black	ntrolled by coc and white fea	/ lominance. T thers is calle	he allele for d erminette.	black is F ^b
	hite chicken w baby chicks a			ny will be black	?		
⁺\ b. Wha	it percentage o	of the chic	ks will be er	minette?	00%		
+) c. Wha	t is the genoty	pic ratio f	or this cross	? <u> :0F</u> FW	*F8		
	+1	FB	FWFB	FWFB			
		FB	FWFB	FWFB			
+1	and white chi a. They would b. They would F x F	have a bl	ack chick?	nat is the proba 25 % 25 % F ^W	ability that:		
. a.e <u></u>		FB	FBFB	FBFW			
		FW	FBFW	FWFW			
In five O'clock sliver (P ^s).	plants, flower	color is c	ontrolled by	codominance.	The two alle	les are blue	(P ^b) and
result.				ilver-flower pla	nt. Eighty-fo	ur offspring a	are the
	many will be h	, ,	_	72	07		
				sliver flowers?		_	
Parents: P	t is the phenot	ypic ratio 	P ^B	P ^B			
	. ,	PB	P ^B P ^B	PBPB			
		PIS	PBPS	P ^B P ^s			

Name: _	Key	Per: DIHYBRID	Desk: Key Sec: _	Date: Key
1. In sor while	me dogs, Barking (B) v chasing. Also, erect e	while chasing is due to	a dominant gene whil o droopy ears (e). By (e others do not bark (b) crossing a heterozygous
		nat would demonstrate ed your answers. <u>Bb</u> +		rents and the resulting
be	Bb Ee	Bbee	bbEe	bbee
be	Bb Ee	Bbee	bb Ee	bbee
be	Bb Ee	Вь ее	bbEe	bbee
be	Bb Ee	Bbee	bbEe	bbee
Niconahau				
Number		니 † l erect ear / silent	H droopy ear / barl	ker H droopy ear / silent
4 er 2) In hur	rect eared / barker mans, black hair (B) Is s (f). Two heterozygou	dominant over red haus people marry. What	ir (b) and five fingers is	ker H droopy ear / silent s dominant (F) over six the offspring having the
2) In hur finger	rect eared / barker mans, black hair (B) Is s (f). Two heterozygou	dominant over red ha	ir (b) and five fingers is	s dominant (F) over six
2) In hur finger	rect eared / barker mans, black hair (B) Is s (f). Two heterozygou ring? BbFf X	dominant over red haus people marry. What	ir (b) and five fingers is are the possibilities of	s dominant (F) over six f the offspring having the
2) In hur finger follow	rect eared / barker mans, black hair (B) Is s (f). Two heterozygouing? BbFf X	dominant over red haus people marry. What BF	ir (b) and five fingers is are the possibilities of	s dominant (F) over six f the offspring having the
2) In hur finger follow	rect eared / barker mans, black hair (B) Is s (f). Two heterozygouing? BbFf XBF	dominant over red haus people marry. What BFF	ir (b) and five fingers is are the possibilities of bF BbFF	s dominant (F) over six f the offspring having the
2) In hur finger follow	rect eared / barker mans, black hair (B) Is s (f). Two heterozygouing? BBFF BBFF BBFF	dominant over red haus people marry. What BbFf BF BBFf	ir (b) and five fingers is are the possibilities of BF BBFF	s dominant (F) over six f the offspring having the BFF BbFf
2) In hur finger follow	rect eared / barker mans, black hair (B) Is s (f). Two heterozygouring? BbFf XBFF BBFF BBFF BBFF BBFF	dominant over red haus people marry. What BFF BBFF BBFF BBFF	ir (b) and five fingers is are the possibilities of bF BbFF BbFF	s dominant (F) over six f the offspring having the bF BbFf Bbff bbff
2) In hur finger follow BF BF Number	rect eared / barker mans, black hair (B) Is s (f). Two heterozygouing? BBF BBFF BBFF BBFF BbFF BbFF	dominant over red haus people marry. What BbFf BF BBFF BBFF BBFF BBFF	ir (b) and five fingers is are the possibilities of bF BbFF BbFF bbFF	s dominant (F) over six f the offspring having the bF BbFf Bbff bbff