Scientists at Bikini Bottoms have been investigating the genetic makeup of the organisms in this community. Use the information provided and your knowledge of genetics to answer each question.

1. F	For each genotype below, indicate whether it is a heterozygous (He) OR homozygous (Ho).						
	TT	Bb	DD	Ff	tt	dd	
					 BB		
	Which of the	e genotypes	in #1 would be	considered pur	ebred?		
	Which of the	e genotypes	in #1 would be	hybrids?			
2. I	Determine the ph	nenotype for	each genotype	using the inform	nation provided	about SpongeB	ob.
(			ody color is don			. уу	
5		-	nape is dominan			SS	
2 -	<b>.</b>						
3. F	For each phenoty			are possible for	Patrick.		
A tall head (T) is dominant to short (t).  Tall = Short =							_
			ominant to yello		ody =		
his s	pongeBob Squa	rePants rece	ently met Spong sie is round. Cr	eSusie Roundpreate a Punnett	eants at a dance.	SpongeBob is	heterozygous for that would result
		A. List t	he possible gend	otypes and pher	notypes for their	children.	
		B. What	are the chances	of a child with	a square shape?	out of _	or%
		C. What	are the chances	of a child with	a round shape?	out of	or%
ove	atrick met Patti r a yellow body children. HINT	color. Create	e a Punnett squa	are heterozygo are to show the	ous for their pinl possibilities that	c body color, w would result if	which is dominant Patrick and Patti
		A. List t	he possible gend	otypes and pher	notypes for their	children.	
	_	B. What	are the chances	of a child with	a pink body?	out of	or%

C. What are the chances of a child with a yellow body? \_\_\_\_ out of \_\_\_\_ or \_\_\_\_%

his hometown of Squid Valley. His fami married a nice girl who has light green ski	nt blue skin, which is the dominant trait for body color in ly brags that they are a "purebred" line. He recently in, which is a recessive trait. Create a Punnett square to Squidward and his new bride had children. Use B to ent the recessive gene.
A. List the possible	genotypes and phenotypes for their children.
B. What are the char	ces of a child with light blue skin?%
C. What are the char	ices of a child with light green skin?%
D. Would Squidward	's children still be considered purebreds? Explain!
	ho is heterozygous for the light blue body color, married a girl that hare to show the possibilities that would result if they had children.
A. List the possible	genotypes and phenotypes for their children.
B. What are the char	ices of a child with light blue skin?%
C. What are the char	ices of a child with light green skin?%
for them. Mrs. Krabbs has been upset stepeballs. She claims that the hospital good baby. Mr. Krabbs is homozygous for his ta	Lil' Krabby, but it has not been a happy occasion nce she first saw her new baby who had short fed and mixed up her baby with someone else's ll eyeballs, while his wife is heterozygous for her ave short eyes, which is the recessive trait. Create ene and t for the recessive one.
A. List the po	ossible genotypes and phenotypes for their children.
B. Did the ho	ospital make a mistake? Explain your answer.