Bikini Bottom – Dihybrid Practice	Name		
Use the chart to identify the genotypes of the	Trait	Dominant Gene	Recessive Gene
following traits:	Body Shape	Squarepants (S)	Roundpants (s)
Heterozygous round eyes, blue body	Body Color	Yellow (Y) Round (R)	Blue (y) Oval (r)
, , ,	Eye Shape Nose Style	Long (L)	Stubby (1)
2. Hybrid eye shape, purebred roundpants			* * * * * * * * * * * * * * * * * * * *
Purebred roundpants, heterozygous long nose			
SpongeBob's aunt, who is a <u>roundpants</u> , has a cute <u>stubb</u> sponge of her dreams and is ready to settle down. Her adorable her nose is (he says it reminds him of his mot wonder what the chances are of that trait being passesquarepants and has <u>purebred long nose</u> .	fiancé always c ther's – aww, ho	omments on how sweet!). The	w ey
4. Identify the genotypes of the aunt and her fiancé.			
Aunt – Roundpants, Stubby Nose =			
Fiancé – Purebred Squarepants, Long Nose =			
5. What are the possible gamete combinations for each p	erson? Aunt – _	Fiancé -	
6. What are the possible genotypes for their children?			<u></u>
7. What are the genotypes of SpongeBob, who is he squarepants, and his wife SpongeSusie, who is blue and h			y color and his
8. What are the possible gamete combinations for each p	erson?		
SpongeBob = SpongeS	Susie =	_	
9. Complete the Punnett square based on the information	provided in #7-8	and then answe	r the questions.
			_
			_
		_	
What is the chance of a blue baby?			
What is the chance of a squarepants?			
What is the chance of a blue squarepants?			
What is the chance of a purebred recessive for bo			
That is the chance of a purebled recessive for be	ui uaits:		

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