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BIKINI BOTTOM GENETICS

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.

compl	ete each section below.		
1.	Write the correct genoty;	e for each color if R represents a rec	d gene and B represents a blue gene
	Red:	Purple:	Blue:
2.	What would happen if Sp flowers. Complete the Pu	ongeBob crossed a Poofkin with reconnett square to determine the chance	l flowers with a Poofkin with blue es of each flower color.
		a. How many of the plants would	have red flowers?%
	b. How many of the plants would	have purple flowers?	
		c. How many of the plants would	have blue flowers?%
3.	What would happen if Sp Punnett square. If 240 of	ongeBob crossed two Poofkins with fspring were produced, how many w	purple flowers? Complete the ould you expect of each phenotype?
		a. How many of the offspring wou	ald have red flowers?
		b. How many of the offspring wor	ald have purple flowers?
		c. How many of the offspring wor	ald have blue flowers?
green	jellyfish known as Goober	so jellyfishing at Jellyfish Fields. The s and only really great jellyfishermed are yellow (YY) or blue (BB), but so Use this information to help you con	a fields are home to a special type of a are lucky enough to catch some on ome end up green (Goobers) as a aplete each section below.
4.	the Punnett square to hel	ongeBob and Patrick crossed two "go you determine the probability for e ratios in the space below. Genotypic Ratio:	goobers" or green jellyfish? Complete ach color of jellyfish. Write the
		Phenotypic Ratio:	

What would happen if they crossed a yellow jellyfish with a goober? Complete the Punnett square to help you determine the probability for each color of jellyfish.		
	Give the possible genotypes and phenotypes for the offspring.	
	What percentage of the offspring would be yellow?% What percentage would be blue?% What percentage would be "goobers" (green)?%	
What would happen if they of square to help you answer the would you expect for each?	rossed a blue jellyfish with a yellow jellyfish? Complete the Punnett e question. If 100 jellyfish were produced from this cross, how many	
	Yellow:	
	Blue:	
What would happen if they of help you answer the question you expect for each?	crossed a blue jellyfish with a goober? Complete the Punnett square to a. If 100 jellyfish were produced from this cross, how many would	
	Yellow: Blue:	
	What would happen if they of square to help you answer the would you expect for each? What would happen if they of help you answer the question you expect for each?	