ncomplete Dominance			
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.			
. Write the correct genotype for each color if R represents a red gene and B represents a blue gene.			
Red Blue Purple			
. 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.			
(a) Give the genotypes and phenotypes for the offspring. (b) How many of the plants would have red flowers?% (c) How many of the plants would have purple flowers? % (d) How many of the plants would have blue flowers? %			
. What would happen if SpongeBob crossed two Poofkins with purple flowers? Complete the Punnett quare to show the probability for each flower color.			
(a) Give the genotypes and phenotypes for the offspring.			
(b) How many of the plants would have red flowers?%			
(c) How many of the plants would have purple flowers? %			

Name __

Bikini Bottom Genetics

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.

(d) How many of the plants would have blue flowers? _____ %

	(a) Give the genotypes and phenotypes for the offspring.
	(b) If SpongeBob planted 100 seeds from this cross, how many should be expect to have of each color?
	Purple flowers Blue flowers Red flowers

Worksheet created by T. Trimpe 2003 http://sciencespot.net/