Unit 5: Patterns of Inheritance						
Name:	Period:					
5.4 Complex Patterns Practice #2						
Bikini Bottom Codominance and Incomplete Don	ominance					
SpongeBob loves growing flowers for his pal Sandy. Her favorit in color. Both red (P^R) and blue (P^B) phenotypes are dominant, of the two dominant phenotypes. To answer the following, use	ite flowers, Poofkins, are found in red, blue, and purple , while purple is the result of INCOMPLETE DOMINANCE se your knowledge of INCOMPLETE DOMINANCE.					
1. Write the correct genotype for each color if P ^R represents a red allele and P ^B represents a blue allele.						
Red = Blue =	Purple =					
2. What would happen if SpongeBob crossed a Poofkin with red flowers with a Poofkin with blue flowers?						
Genotypic Ratio:						
Phenotypic Ratio:						
3. What would happen if SpongeBob crossed two Poof	ofkins with purple flowers?					
Genotypic Ratio:						
Phenotypic Ratio:						

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 (in percent) of each flower color.

Genotypic Ratio:

Phenotypic Ratio:

Keep to study!

SpongeBob and his pal Patrick love to go jellyfishing! Bikini Bottom typically has green jellyfish (G) or blue jellyfish (B), but it is also home to a very special kind of jellyfish known as Goobers, a spotted jellyfish that is green <u>and</u> blue due to CODOMINANCE. Use your knowledge of CODOMINANCE to answer the following.

5. Write the correct genotype for each color if R represents a red allele and B represents a blue allele.

Green= _____ Blue = _____ Goobers = _____

6. What would happen if SpongeBob and Patrick grossed two "goobers"?

Genotypic Ratio:





Phenotypic Ratio:

7. What would happen if they crossed a green jellyfish with a Goober?

Genotypic Ratio:

Phenotypic Ratio:

8. What would happen if they crossed a blue jellyfish with a green jellyfish?

Genotypic Ratio:

Phenotypic Ratio:

9. What would happen if they crossed a blue jelly with a Goober?

If 100 jellyfish babies are produced from this cross, how many would you expect for each color?

Green = _____

Blue = _____

Goober = _____