Genetics Quiz Practice

1. For each genotype below, indicate whether it is heterozygous (He) or homozygous (Ho).
   Ff _____  LL _____  bb _____  Rr _____

2. In monsters of Mike’s species, green body color (G) is dominant to yellow body color (g). Determine the phenotype for each genotype below based on this information.
   GG ________________  Gg ________________  gg ________________

3. SpongeBob has round eyes. If round eyes (R) are dominant to oval eyes (r), give the genotypes that are possible for members of SpongeBob’s family.
   Round eyes ___________________  Oval eyes ___________________

4. SpongeBob’s cousin, SpongeJimBob, is a heterozygous yellow sponge. He recently married a blue sponge gal. Yellow color (Y) is dominant to blue color (y). Create a Punnett square and answer the questions below.

   |   |   |
---|---|---|
| G | g |
| g | G |

A. What are the possible genotypes and phenotypes for their children?

B. What percentage of their children will be blue?

C. What percentage of their children will be yellow?