

Group # \_\_\_\_\_  
Year and Section: \_\_\_\_\_

Scientists at Bikini Bottoms have been investigating the genetic makeup of the organisms in this community.

Use the information provided and your knowledge of genetics to answer each question.

**1. For each genotype below, indicate whether it is a heterozygous (He) OR homozygous (Ho).**

TT \_\_\_\_\_ Bb \_\_\_\_\_ DD \_\_\_\_\_ Ff \_\_\_\_\_ tt \_\_\_\_\_ dd \_\_\_\_\_  
Dd \_\_\_\_\_ ff \_\_\_\_\_ Tt \_\_\_\_\_ bb \_\_\_\_\_ BB \_\_\_\_\_ FF \_\_\_\_\_

**2. Determine the phenotype for each genotype using the information provided about SpongeBob.**

Yellow body color is dominant to blue.

YY \_\_\_\_\_ Yy \_\_\_\_\_ yy \_\_\_\_\_

Square shape is dominant to round.

SS \_\_\_\_\_ Ss \_\_\_\_\_ ss \_\_\_\_\_



**3. For each phenotype, give the genotypes that are possible for Patrick.**

A tall head (T) is dominant to short (t).

Tall = \_\_\_\_\_ Short = \_\_\_\_\_

Pink body color (P) is dominant to yellow (p).

Pink body = \_\_\_\_\_ Yellow body = \_\_\_\_\_