

## Bikini Bottom Genetics

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: **Ho**      Bb: **He**      DD: **Ho**      Ff: **He**      tt: **Ho**      dd: **Ho**  
 Dd: **He**      ff: **Ho**      Tt: **He**      bb: **Ho**      BB: **Ho**      FF: **Ho**

Which of the genotypes in #1 would be considered purebred? **TT, DD, tt, dd, ff, bb, BB, FF**

Which of the genotypes in #1 would be hybrids? **Bb, Ff, Dd, Tt**

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

**Yellow** body color is dominant to **blue**.

YY: Yellow body

yy: blue body

Yy: Yellow body

**Square** shape is dominant to **round**.

SS: Square shape  
 ss: round shape



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



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

Tall: TT or Tt

Short: tt

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

Pink body: PP or Pp      Yellow body: pp

4. SpongeBob SquarePants recently met SpongeSusie Roundpants at a dance. SpongeBob is **heterozygous** for his **square** shape, but SpongeSusie is **round**. Create a Punnett square to show the possibilities that would result if SpongeBob and SpongeSusie had children. HINT: Read question #2!

- A. **Fill in the possible genotypes and phenotypes for their children.**

	S	s
S	SS: Square shape	Ss: Square shape
s	Ss: Square shape	ss: round shape

- B. What are the chances of a child with a **square** shape? **2 out of 4 or 50 %**

- C. What are the chances of a child with a **round** shape? **2 out of 4 or 50 %**

# Bikini Bottom Genetics Review Answer Key

**M Lipman**



**Bikini Bottom Genetics Review Answer Key:**

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