

## Bikini Bottom Genetics Review

1. Use your notes to complete each definition.

**Purebred** - Also called homozygous and consists of gene pairs with genes that are the same.

**Hybrid** - Also called heterozygous and consists of gene pairs that are different.

**Genotype** is the actual gene makeup represented by letters.

**Phenotype** is the physical appearance of a trait, such as a yellow or blue body color.

2. Classify each of the following gene pairs as heterozygous (He) or homozygous (Ho).

TT Ho

Bb He

dd Ho

Ff He

Rr He

3. Give the possible genotypes for each trait based on the information provided in the chart.

Purebred squarepants - SS

Hybrid round eyes - Rr

Heterozygous squarepants - Ss

Blue body - yy

Purebred roundpants - rr

Homozygous yellow body - YY

Characteristic	Dominant Gene	Recessive Gene
Body Shape	Squarepants (S)	Roundpants (s)
Body Color	Yellow (Y)	Blue (y)
Eye Shape	Round (R)	Oval (r)
Nose Style	Long (L)	Stubby (l)

4. Give the phenotypes for each genotype based on the information provided in the chart.

SS - Squarepants

Yy - Yellow body

rr - Oval eyes

Rr - Round eyes

ss - Roundpants

YY - Yellow body

5. Spongebob's cousin, SpongelimBob, is a heterozygous yellow sponge. He recently married a blue sponge gal. Create a Punnett square to help you answer the questions.

	Y	y
y	Yy	yy
y	Yy	yy

What are the possible genotypes and phenotypes for the

offspring? Yy - yellow and yy - blue

What percentage would be yellow? 50%

What percentage would be blue? 50%

6. SpongelimBob has oval eyes, while his bride is believed to be homozygous for her round eye shape. Create a Punnett square to help you answer the questions.

	r	r
R	Rr	Rr
R	Rr	Rr

What are the possible genotypes and phenotypes for the

offspring? Rr - round

What percentage would have round eyes? 100%

What percentage would have oval eyes? 0%

# Modern Biology Section 12 2 Review Human Genetics

## Answer Key

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