

Use your knowledge of genetics to complete this worksheet.

1. Use the information for SpongeBob's traits to write the phenotype (physical appearance) for each item.

Trait	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)

- (a) LL - Long
 (b) yy - Blue
 (c) Ss - SquarePants
 (d) RR - Round
 (e) Rr - Round
 (f) ll - Stubby
 (g) ss - Roundpants
 (h) Yy - Yellow

2. Use the information in the chart in #1 to write the genotype (or genotypes) for each trait below.

- (a) Yellow body - YY or Yy
 (b) Roundpants - ss
 (c) Oval eyes - rr
 (d) Long nose - LL or Ll
 (e) Stubby nose - ll
 (f) Round eyes - RR or Rr
 (g) Squarepants - SS or Ss
 (h) Blue body - yy

3. Determine the genotypes for each using the information in the chart in #1.

- (a) Heterozygous round eyes - Rr
 (b) Purebred squarepants - SS
 (c) Homozygous long nose - LL
 (d) Hybrid yellow body - Yy

4. One of SpongeBob's cousins, SpongeBillyBob, recently met a cute squarepants gal, SpongeGerdy, at a local dance and fell in love. Use your knowledge of genetics to answer the questions below.

	S	s
S	<u>Ss</u>	<u>Ss</u>
s	<u>ss</u>	<u>ss</u>

- (a) If SpongeGerdy's father is a heterozygous squarepants and her mother is a roundpants, what is her genotype? Complete the first Punnett square to show the possible genotypes.

Based on your results, what would Gerdy's genotype have to be? Ss

	S	s
S	<u>SS</u>	<u>Ss</u>
s	<u>Ss</u>	<u>ss</u>

- (b) Complete the second Punnett square to show the possibilities that would result if Billy Bob & Gerdy had children.
 NOTE: SpongeBillyBob is heterozygous for his squarepants shape.

- (c) What is the probability of kids with squarepants? 75 %
 (d) What is the probability of kids with roundpants? 25 %

Science Spot Answers T Trimpe Genetics

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Ph.d.**



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When Will Broccoli Taste Like Chocolate? Dale L. Bodian, Ph.d., D. Barry Starr, Ph.d., 2012-07-20 Why do I have freckles How are two headed snakes possible Can scientists use genetics to make superheroes When Will Broccoli Taste Like Chocolate offers entertaining and informative answers written by Stanford University scientists to these and many more questions asked by people of all ages from around the world The easy to read explanations reveal how the science of genetics touches all of our lives A very approachable way for people to explore genetics ScottH 23andMe Read the full review at <http://blog.23andme.com/23andme-and-you-genetics-101-chocolate-broccoli>

The Cartoon Guide to Genetics Larry Gonick, Mark Wheelis, 1983 Have you ever asked yourself Are spliced genes the same as mended Levis Watson and Crick Aren't they a team of British detectives Plant sex Can they do that Is Genetic Mutation the name of one of those heavy metal bands Asparagine Which of the four food groups is that in Then you need The Cartoon Guide to Genetics to explain the important concepts of classical and modern genetics it's not only educational it's funny too

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Table of Contents Science Spot Answers T Trimpe Genetics

1. Understanding the eBook Science Spot Answers T Trimpe Genetics
 - The Rise of Digital Reading Science Spot Answers T Trimpe Genetics
 - Advantages of eBooks Over Traditional Books
2. Identifying Science Spot Answers T Trimpe Genetics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Science Spot Answers T Trimpe Genetics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Science Spot Answers T Trimpe Genetics
 - Personalized Recommendations
 - Science Spot Answers T Trimpe Genetics User Reviews and Ratings
 - Science Spot Answers T Trimpe Genetics and Bestseller Lists
5. Accessing Science Spot Answers T Trimpe Genetics Free and Paid eBooks
 - Science Spot Answers T Trimpe Genetics Public Domain eBooks
 - Science Spot Answers T Trimpe Genetics eBook Subscription Services

- Science Spot Answers T Trimpe Genetics Budget-Friendly Options
- 6. Navigating Science Spot Answers T Trimpe Genetics eBook Formats
 - ePub, PDF, MOBI, and More
 - Science Spot Answers T Trimpe Genetics Compatibility with Devices
 - Science Spot Answers T Trimpe Genetics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Spot Answers T Trimpe Genetics
 - Highlighting and Note-Taking Science Spot Answers T Trimpe Genetics
 - Interactive Elements Science Spot Answers T Trimpe Genetics
- 8. Staying Engaged with Science Spot Answers T Trimpe Genetics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Spot Answers T Trimpe Genetics
- 9. Balancing eBooks and Physical Books Science Spot Answers T Trimpe Genetics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Spot Answers T Trimpe Genetics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Science Spot Answers T Trimpe Genetics
 - Setting Reading Goals Science Spot Answers T Trimpe Genetics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Science Spot Answers T Trimpe Genetics
 - Fact-Checking eBook Content of Science Spot Answers T Trimpe Genetics
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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