



Name _____ Date _____

Concept Covered: The Dihybrid Cross 2

In tomatoes, red fruit (R) is dominant to yellow fruit (r). Round fruit (B) is dominant to pear-shaped fruit (b). Cross a heterozygous red, round tomato plant with another plant of the same genotype.

Rr Bb 1. What is the genotype of the first parent?

Rr Bb 2. What is the genotype of the second parent?

3. Fill in the Punnett square below.

	RB	Rb	rB	rb
RB	RR BB	RR Bb	Rr BB	Rr Bb
Rb	RR Bb	RR bb	Rr Bb	Rr bb
rB	Rr BB	Rr Bb	rr BB	rr Bb
rb	Rr Bb	Rr bb	rr Bb	rr bb

- 4/16 4. What is the probability of getting heterozygous red and round fruit in the offspring?
- 1/16 5. What is the probability of getting homozygous red and round fruit in the offspring?
- 12/16 6. What fraction of the offspring should be red?
- 4/16 7. What fraction of the offspring should be yellow?
- 12/16 8. What fraction of the offspring should be round?
- 4/16 9. What fraction of the offspring should be pear-shaped?
- 3/16 10. What is the probability of getting offspring that have red and pear-shaped fruit?
- 3/16 11. What is the probability of getting offspring that have yellow fruit that is round?

Mendelian Genetics Problems

Merle Crowe Coulter



Mendelian Genetics Problems:

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Solving Problems in Genetics Richard Kowles, 2013-12-01 The principle objective of this book is to help undergraduate students in the analysis of genetic problems Many students have a great deal of difficulty doing genetic analysis and the book will be useful regardless of which genetics text is being used Most texts provide some kinds of problems and answers few if any however show the students how to actually solve the problem Often the student has no idea how the answer was derived This work emphasizes solutions not just answers The strategy is to provide the student with the essential steps and the reasoning involved in conducting the analysis Throughout the book an attempt is made to present a balanced account of genetics Topics therefore center about Mendelian cytogenetic molecular quantitative and population genetics with a few more specialized areas Whenever possible the student is provided with the appropriate basic statistics necessary to make some of the analyses The book also builds on itself that is analytical methods learned in early parts of the book are subsequently revisited and used for later analyses A deliberate attempt is made to make complex concepts simple and sometimes to point out that apparently simple concepts are sometimes less so on further investigation Any student taking a

genetics course will find this book an invaluable aid to achieving a good understanding of genetic principles and practice

A Study of Student Understanding of Mendelian Genetics, Using Microcomputers, Concept Maps, and Clinical Interviews as Analytical Tools Terry L. Peard,1983 **Genetics** Gail R. Patt,1992 *On Some Mathematical Problems*

Arising in the Development of Mendelian Genetics Hilda Geiringer,1949 **Problems in Genetics** David Harrison,1970

Genetics Through Problems B N Behera,2004 AP Biology Premium, 2024: Comprehensive Review With 5 Practice

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