

## Chapter

## 10

## Mendel and Meiosis

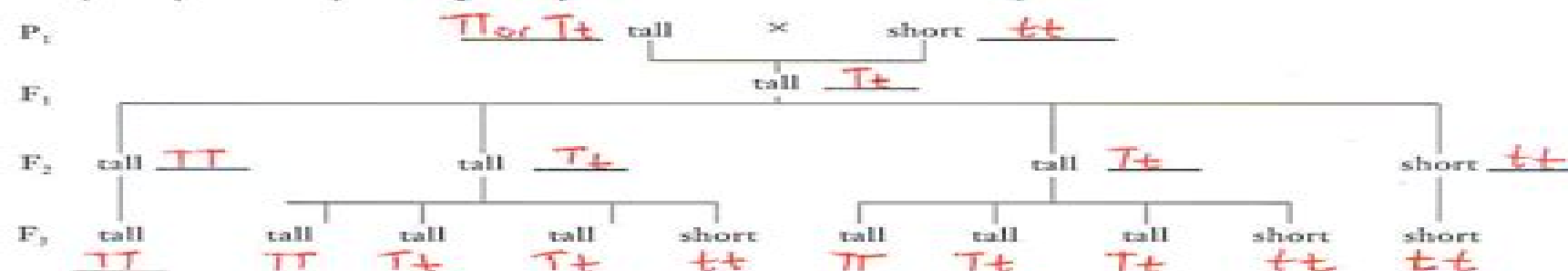
## Problem Solving

Use with Chapter 10, Section 10.1

## Tracing a Family Tree and Calculating Probabilities

The phenotypes of three generations of pea plants produced by crossing a tall plant with

a short one are shown below. Use the diagram to answer the questions that follow.



1. The allele for tall pea plants ( $T$ ) is dominant to the allele for short plants ( $t$ ). What are the genotypes of the parents?

Tall parent  $\Rightarrow TT$  or  $Tt$  / Short parent  $\Rightarrow tt$

2. Fill in the blanks on the diagram with the genotypes of the parents and each of the  $F_1$ ,  $F_2$ , and  $F_3$  plants. The  $F_1$  plant and each of the  $F_2$  plants were self-pollinated. If necessary, use Punnett squares to help you determine the genotypes of the  $F_2$  and  $F_3$  plants.

3. Why is only one phenotype given for the offspring of one of the tall  $F_2$  plants and one of the short  $F_2$  plants?

Both plants have only one type of allele for height so all offspring will have the same genotype.

4. The allele for green pea pods ( $G$ ) is dominant to the allele for yellow pods ( $g$ ). Suppose a heterozygous tall parent plant is heterozygous for green pods. Draw a Punnett square that shows all the possible genotypes for the  $F_1$  generation that would result from self-pollination of the parent plant.

	$GT$	$Gt$	$gT$	$gt$
$GT$	$GGTT$	$GGTt$	$GgTT$	$GgTt$
$Gt$	$GGTt$	$GGtt$	$GgTt$	$Ggtt$
$gT$	$GgTT$	$GgTt$	$ggTT$	$ggTt$
$gt$	$GgTt$	$Ggtt$	$ggTt$	$ggtt$

5. Expressed as  $gt$ :  $GgTt$  by the  $P_1$  plant will produce a tall plant with green pods? A tall plant with yellow pods? A short plant with green pods? A short plant with yellow pods?

Tall with green pods  $\Rightarrow 9/16 = 0.56 \times 100 = 56\%$

Tall with yellow pods  $\Rightarrow 3/16 = 0.19 \times 100 = 19\%$

Short with green pods  $\Rightarrow 3/16 = 0.19 \times 100 = 19\%$

Short with yellow pods  $\Rightarrow 1/16 = 0.06 \times 100 = 6\%$

# Holt Biology Mendel And Heredity Skills Answers

**EW Minium**



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Modern Biology Towle,Albert Towle,1991      Teacher's Guide to the Modern Biology Program James Howard Otto,Albert Towle,Elizabeth H. Crider,1965      *Modern Biology* James Howard Otto,Albert Towle,1965      **Biology, the Foundations** Stephen L. Wolfe,1983      **Nature** Sir Norman Lockyer,1912      **The Citizen** ,1964      The Publishers' Trade List Annual ,1967      **New York Herald Tribune Books** ,1932      *Holt Biology: Principles and Explorations* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,1997-03      **Scientific and Technical Books in Print** ,1972      **Holt Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,1998-01-01      **Mendel's Principles of Heredity** William Bateson,Gregor Mendel,2013-03-21 Six years after Charles Darwin announced his theory of evolution to the world Gregor Mendel began studying the inheritance of traits in pea plants Mendel s research led to his discovery of dominant and recessive traits and other facts of evolution which he reported in his groundbreaking 1865 paper Experiments in Plant Hybridization His findings languished until 1902 when William Bateson revived interest in the subject with this book a succinct account of Mendel s heredity related discoveries Bateson coined the term genetics to refer to heredity and inherited traits and his rediscovery of Mendel s work forms the foundation of today s field of genetics Suitable for biology and general science students at the undergraduate and graduate levels this volume is essential reading for anyone with an interest in science and genetics In addition to Bateson s commentary it features two of Mendel s papers including the original Experiments plus a biography of Mendel a detailed bibliography and indexes of subjects and authors Numerous figures complement the text along with eight pages of color illustrations      **Prentice Hall Science Explorer** Michael J. Padilla,Ioannis Miaoulis,Martha Cyr,Donald L. Cronkite,2002      Holt Science and Technology Holt, Rinehart and Winston Staff,2003-01      Prentice Hall Science Anthea Maton,Jill D. Wright,Jean Hopkins,Susan Johnson,David Lahart,Maryanna Quon Warner,1994      Mendel's Principles of Heredity William Bateson,1909 Vererbung

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