

Chapter

10

Mendel and Meiosis

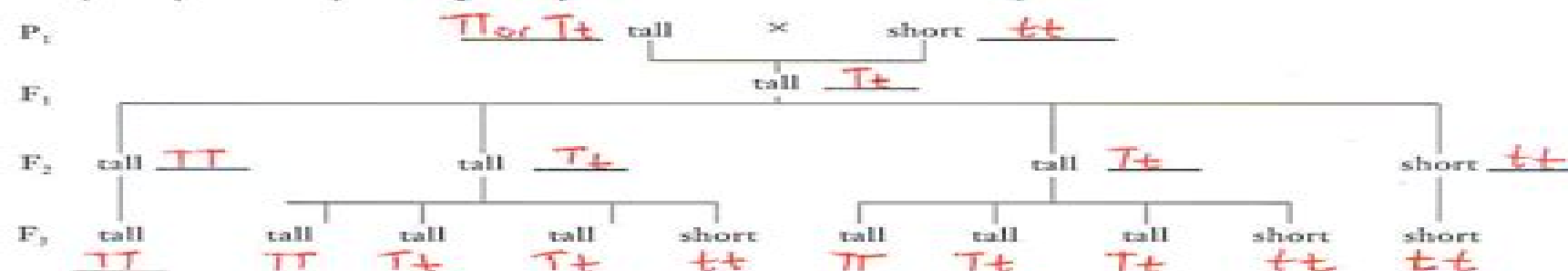
Problem Solving

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

Sir Norman Lockyer



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Teacher's Guide to the Modern Biology Program James Howard Otto,Albert Towle,Elizabeth H. Crider,1965 Modern Biology Towle,Albert Towle,1991 **Modern Biology** James Howard Otto,Albert Towle,1965 **Nature** Sir Norman Lockyer,1912 **Biology, the Foundations** Stephen L. Wolfe,1983 **The Publishers' Trade List Annual** ,1967 The Citizen ,1964 **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 **Cells and Heredity** Michael J. Padilla,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,1913 *California Holt Biology Standards Review Workbook* Hrw,Holt Rinehart & Winston,2007-01-01

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