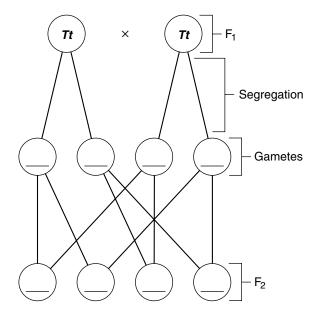
Section	11-1 The Work of Gregor Mendel (pages	263–266)
	describes how Gregor Mendel studied the inheritance of traits in and what his conclusions were.	
Introduc	tion (page 263)	
1. The sci	entific study of heredity is called	
Gregor N	Mendel's Peas (pages 263–264)	
•	the letter of each sentence that is true about Gregor Mendel's	peas.
a. The	male parts of pea flowers produce eggs.	
b. Who	en pollen fertilizes an egg cell, a seed for a new plant is forme	ed.
c. Pea	plants normally reproduce by self-pollination.	
	ds that are produced by self-pollination inherit their character erent plants.	ristics from two
	loes it mean when pea plants are described as being true-bree	eding?
	form his experiments, how did Mendel prevent pea flowers fr	
4. To peri		rom self-pollina
4. To perf and co	form his experiments, how did Mendel prevent pea flowers frontrol their cross-pollination?	rom self-pollina
4. To perf and co	form his experiments, how did Mendel prevent pea flowers from their cross-pollination? and Dominance (pages 264–265) where with its definition.	rom self-pollina
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4. To perf and co	form his experiments, how did Mendel prevent pea flowers from their cross-pollination? Ind Dominance (pages 264–265) Form with its definition. Definitions 5. Specific characteristics that vary from one individual	Terms a. genes
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- 11. Circle the letters of the traits controlled by dominant alleles in Mendel's pea plants.
 - a. tall
- **b.** short
- **c.** yellow
- d. green

Segregation (pages 265–266)

12. How did Mendel find out whether the recessive alleles were still present in the F_1 plants?

- **13.** About one fourth of the F_2 plants from Mendel's F_1 crosses showed the trait controlled by the _____ allele.
- **14.** Circle the letter of each sentence that is true about Mendel's explanation of the results from his F_1 cross.
 - **a.** Mendel assumed that a dominant allele had masked the corresponding recessive allele in the F_1 generation.
 - **b.** The trait controlled by the recessive allele never showed up in any F₂ plants.
 - **c.** The allele for shortness was always inherited with the allele for tallness.
 - **d.** At some point, the allele for shortness was segregated, or separated, from the allele for tallness.
- 15. What are gametes?
- **16.** Complete the following diagram to show how alleles segregate during the formation of gametes.



17. In the diagram above, the dominant allele is represented by _____ and the recessive allele is represented by _____.