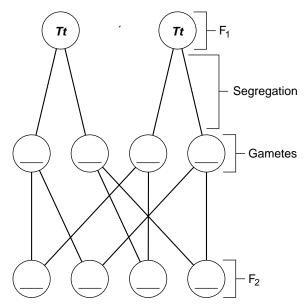
| ame | Class Da | ite |
|--|--|--------------------------------------|
| Chapter 11 | Introduction to Genetics | |
| ection 1 | 1-1 The Work of Gregor Mendel (pages 2 | 263-266) |
| his section de | scribes how Gregor Mendel studied the inheritance of traits in d what his conclusions were. | 103 200) |
| ntroductio | On (page 263) | |
| 1. The scien | tific study of heredity is called | |
| Gregor Me | endel's Peas (pages 263–264) | |
| 2. Circle the | e letter of each sentence that is true about Gregor Mendel's p | eas. |
| a. The m | ale parts of pea flowers produce eggs. | |
| b. When | pollen fertilizes an egg cell, a seed for a new plant is formed | d. |
| c. Pea pl | ants normally reproduce by self-pollination. | |
| | that are produced by self-pollination inherit their characteriant plants. | stics from two |
| umere | | |
| What doe | es it mean when pea plants are described as being true-breed m his experiments, how did Mendel prevent pea flowers fro rol their cross-pollination? | om self-pollina |
| What doe | m his experiments, how did Mendel prevent pea flowers fro | om self-pollina |
| 4. To perfor and contr | m his experiments, how did Mendel prevent pea flowers fro | om self-pollina |
| 4. To perfor and control. Genes and latch the term | m his experiments, how did Mendel prevent pea flowers from their cross-pollination? Dominance (pages 264–265) In with its definition. | om self-pollina |
| 4. To perfor and contractions Genes and latch the term | m his experiments, how did Mendel prevent pea flowers from their cross-pollination? Dominance (pages 264–265) In with its definition. Definitions | om self-pollina |
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Chapter 11, Introduction to Genetics (continued)

- 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 _____.