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CHAPTER 9 ACTIVE READING WORKSHEETS

FUNDAMENTALS OF GENETICS

Section 9-1: Mendel's Legacy

Read the passage below, which covers topics from your textbook. Answer the questions that follow.

Mendel concluded that paired factors separate during the formation of reproductive cells. This means that each reproductive cell, or gamete, receives only one factor of each pair. When two gametes combine during fertilization, the offspring have two factors controlling a specific trait. The law of segregation states that a pair of factors is segregated, or separated, during the formation of gametes.

Mendel also crossed plants that differed in two characteristics, such as flower color and seed color. The data from these more complex crosses showed that traits produced by dominant factors do not necessarily appear together. A green seed pod produced by a dominant factor could appear in a white-flowering pea plant. Mendel concluded that the factors for different characteristics are not connected. The law of independent assortment states that factors separate independently of one another during the formation of gametes.

Fill in the blank to complete each sentence.

SKILL Completing Sentences

- During the formation of reproductive cells, paired factors _____.
- Because of this separation, each gamete receives only _____.
- Offspring have two factors controlling a specific trait because gametes combine during _____.
- The law of segregation states that _____.
- Traits produced by dominant factors do not necessarily appear _____.

Circle the letter of the phrase that best completes the statement.

- The fact that a green seed pod could appear in a white-flowering pea plant supports the _____.

- law of segregation
- law of independent assortment
- theory of fertilization
- both (a) and (b)

Modern Biology Active Reading Worksheets Section 9-1

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Fundamentals Of Genetics Chapter Review Answers