

Active Reading Chapter 8 Section 3 Pages 170-176**Section: Studying Heredity**

Read the passage below. Then answer the questions that follow.

A **Punnett square** is a diagram that predicts the expected outcome of a genetic cross by considering all possible combinations of gametes in the cross. Named for its inventor, Reginald Punnett, the Punnett square in its simplest form consists of four boxes inside a square. The possible gametes that one parent can produce are written along the top of the square. The possible gametes that the other parent can produce are written along the left side of the square. Each box inside the square is filled with two letters obtained by combining the allele along the top of the box with the allele along the side of the box. The letters in the boxes indicate the possible genotypes of the offspring.

SKILL: READING EFFECTIVELY

Read each question, and write your answer in the space provided.

1. What information does the first sentence tell the reader?

2. What do letters written along the top and left side of a Punnett square represent?

3. How is the combination of letters inside each square determined?

4. What do the letters in the boxes indicate?

5. What data did Mendel obtain when he examined each F_1 plant?

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AW Chickering



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