

Chapter 11 Introduction to Genetics

Section Review 11-1

Reviewing Key Concepts

Short Answer On the lines provided, answer the following questions.

1. State Mendel's principle of dominance.

Mendel's principle of dominance states that some alleles are dominant + others are recessive.

2. Which two combinations of alleles could produce a trait controlled by a dominant allele?

A + trait if there are 2 dominant or 1 dominant + 1 recessive alleles present.

3. What combination of alleles could produce a trait controlled by a recessive allele?

A + trait controlled by a recessive allele will be produced only when 2 recessive alleles are present.

4. Explain segregation of alleles, using pea plant traits in your example.

Segregation is the process during gamete formation in which the two alleles are separated from each other so that each gamete carries only a single copy of each gene.

Reviewing Key Skills

5. Applying Concepts Explain how Mendel's experiments would have been different if he had not worked with true-breeding plants.

True breeding plants allowed Mendel to pinpoint the cause of variation in traits b/c he could control which plants bred. w/o true-breeding plants, Mendel would not have been able to draw his conclusion b/c there would be too many variables.

6. Comparing and Contrasting Explain the difference between cross-pollination and self-pollination in plants.

Cross-pollination is the process of one plant fertilizing another, while self-pollination occurs when a plant fertilizes itself.

7. Calculating One fourth of the plants resulting from a certain cross are expected to show a trait controlled by a recessive allele. If 675 plants resulting from the cross display a trait controlled by a dominant allele, how many plants will show the trait controlled by the recessive allele?

225 plants will show the trait controlled by the recessive allele.

8. Applying Concepts If one of the plants used in the F_1 cross had TT alleles and was combined with a plant with Tt alleles, would the trait controlled by the recessive allele have been produced in the resulting F_2 generation? Explain your answer.

The trait controlled by the recessive allele would not have been produced in the resulting F_2 generation. Both F_1 generation plants need to have Tt allele combinations for the trait controlled by the recessive allele to be produced in one of the F_2 generation plants.

Chapter 11 Introduction Genetics Answer Key

Arshad Iqbal



Chapter 11 Introduction Genetics Answer Key:

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