

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 only 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.

Answer Key For Science Chapter 11 Introduction To Genetics

C. P. Lee



Answer Key For Science Chapter 11 Introduction To Genetics:

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Science Explorer Physical Science Michael J. Padilla, Ioannis Miaculis, Martha Cyr, **Human Genes and Genomes** Leon E. Rosenberg, Diane Drobnis Rosenberg, 2012-05-18 In the nearly 60 years since Watson and Crick proposed the double helical structure of DNA the molecule of heredity waves of discoveries have made genetics the most thrilling field in the sciences The study of genes and genomics today explores all aspects of the life with relevance in the lab in the doctor's office in the courtroom and even in social relationships In this helpful guidebook one of the most respected and accomplished human geneticists of our time communicates the importance of genes and genomics studies in all aspects of life With the use of core concepts and the integration of extensive references this book provides students and professionals alike with the most in depth view of the current state of the science and its relevance across disciplines Bridges the gap between basic human genetic understanding and one of the most promising avenues for advances in the diagnosis prevention and treatment of human disease Includes the latest information on diagnostic testing population screening predicting disease susceptibility pharmacogenomics and more Explores ethical legal regulatory and economic aspects of genomics in medicine Integrates historical classical genetics approach with the latest discoveries in structural and functional genomics

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Animal Biotechnology Ashish S. Verma, Anchal Singh, 2013-11-04 Animal Biotechnology introduces applications of animal biotechnology and implications for human health

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Obsessive-Compulsive Disorders - The

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introducing Bayesian networks and explaining what they represent and how they can be used in evaluations and showing how evaluation can be tested for robustness Using these tools the authors also demonstrate the ways that the methods used in activity level evaluations are applied to questions about body fluids There are also chapters dedicated to reporting of results and implementation of activity level evaluation in a working forensic laboratory Throughout the book four cases are used as examples to demonstrate how to relate the theory to practice and detail how laboratories can integrate and implement activity level evaluation into their active casework

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