

Chapter 11 Introduction to Genetics

Section Review 11-2

Reviewing Key Concepts

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

1. What is probability and how is it used in genetics?

2. In a hybrid plant, if every allele combination has two alleles, what is the probability of one allele being in a certain gamete?

Reviewing Key Skills

3. **Problem Solving** If a genetic cross is completed with an Rr and an rr allele combination, what is the probability of each seed colors being produced? Explain your answer using a Punnett square.

4. **Comparing and Contrasting** How are homozygous and heterozygous allele combinations for a particular trait in plants different? Give an example of an allele combination for each type of plant.

5. **Applying Concepts** Give an example of two plants' allele combinations that have different genotypes but produce the same phenotype.

Interpreting Graphics *For questions 6 to 9, fill in the genotype and percentage expected on the lines provided.*

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	t	8. _____	9. _____