

**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?

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

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**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.

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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.

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

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

		$Tt$	
		$T$	$t$
$Tt$	$T$	6. _____	7. _____
	$t$	8. _____	9. _____