# Section 11–2 Probability and Punnett Squares (pages 267-269)

Key Concepts

- How do geneticists use the principles of probability?
- How do geneticists use Punnett squares?

Genetics and Probability (page 267)

- 1. The likelihood that a particular event will occur is called Pohability
- Circle the letter of the probability that a single coin flip will come up heads.

50 percent d. 25 percent a. 100 percent b. 75 percent

- Is the following sentence true or false? The past outcomes of coin flips greatly affect the outcomes of future coin flips.
- 4. Why can the principles of probability be used to predict the outcomes of genetic random crosses? blante OVE 7095ES

Punnett Squares (page 268)

- 5. How do geneticists use Punnett squares? Runnit Sq vaves genetic ovedict and compare C # 0 5 5
- Complete the Punnett square to show the possible gene combinations for the F<sub>2</sub> offspring.

#### PUNNETT SQUARE FOR TIXTI

	T	- ·
τ	77	++
r	T+	++

Match the terms with the definitions.

N.	Terms	
- <del>'</del>	7.	genotype
_0_	. 8.	homozygous
C	. 9.	phenotype
_ (v	. 10.	heterozygous

#### Definitions

- Organisms that have two identical alleles for a particular trait (TT or tt)
- Organisms that have two different alleles for the same trait (Tt)
- c. Physical characteristic of an organism (tall)
- d. Genetic makeup of an organism (Tt)

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# **Answers Probability Punnett Squares Section Review**

**Linda Swisher, Kevin T. Patton** 

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