

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 Probability.
2. Circle the letter of the probability that a single coin flip will come up heads.
a. 100 percent b. 75 percent c. 50 percent d. 25 percent
3. Is the following sentence true or false? The past outcomes of coin flips greatly affect the outcomes of future coin flips. False
4. Why can the principles of probability be used to predict the outcomes of genetic crosses? because they are random like coin tosses

Punnett Squares (page 268)

5. How do geneticists use Punnett squares? Punnett squares can be used to predict and compare genetic variations that will result from a cross
6. Complete the Punnett square to show the possible gene combinations for the F₂ offspring.

PUNNETT SQUARE FOR Tt × Tt

	T	t
T	TT	Tt
t	Tt	tt

Match the terms with the definitions.

Terms	Definitions
<u>b</u> 7. genotype	a. Organisms that have two identical alleles for a particular trait (TT or tt)
<u>d</u> 8. homozygous	b. Organisms that have two different alleles for the same trait (Tt)
<u>c</u> 9. phenotype	c. Physical characteristic of an organism (tall)
<u>a</u> 10. heterozygous	d. Genetic makeup of an organism (Tt)

Genetics And Probability Section 11 2 Key

Lei Huang



Genetics And Probability Section 11 2 Key:

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