

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 _____.
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. _____
4. Why can the principles of probability be used to predict the outcomes of genetic crosses? _____

Punnett Squares (page 268)

5. How do geneticists use Punnett squares? _____
6. Complete the Punnett square to show the possible gene combinations for the F_2 offspring.

PUNNETT SQUARE FOR $Tt \times Tt$

	T	t
T		
t		

Match the terms with the definitions.

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

Section 11 2 Probability And Punnett Squares Key Answers

J Dewey



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Biology Sylvia S. Mader, 2004 *Modules* McDougal Littell Incorporated, 2005 **Teaching Essential Mathematics, Grades K-8** Timothy J. McNamara, 2007-12-14 The activities can be used to help students understand the reason for the algorithms Students should not just learn how but also why Carrie Chiappetta Math Teacher Magnet Middle School Stamford CT This is a much needed resource book for both inservice and preservice teachers Helen Melvin Second Grade Teacher Dr Levesque School Elementary School Fort Kent ME Creative ready to use classroom activities for teaching essential math concepts Not all educators feel comfortable teaching math yet it is critical for all students to gain a solid foundation of mathematical understanding in grades K 8 Written by a national consultant in mathematics instruction and assessment this resource helps educators gain the confidence they need to teach math in creative and engaging ways Teaching Essential Mathematics Grades K 8 provides teachers with an overview of the key mathematics concepts students need to acquire and includes hands on activities and clear examples to help students learn these concepts in depth The classroom ready activities and calculator exercises are organized according to the NCTM content standards and each activity is directly aligned with specific benchmarks The material also features Suggestions for incorporating cooperative learning into mathematics instruction A comprehensive glossary of mathematical terms to broaden educators subject knowledge Reproducible blackline masters that can be used with students immediately Both new and veteran teachers can leverage this book s many rich examples and student centered learning tasks to re energize their instruction and renew students enthusiasm Instructor's Manual to Accompany Biology the Science of Life, Third Edition Jay Marvin Templin, 1991 **Educart NEET One Shot Biology Chapter-wise book on New NCERT 2024 (Garima Goel)** Educart, 2024-10-28 **Essentials of Genetics** William S. Klug, Michael R. Cummings, 1999 Essentials of Genetics derived from Klug and Cummings highly acclaimed Concepts of Genetics 6 e 2000 the authors capture students interest with up to date coverage of cutting edge topics and research Essentials 3 E will help students connect the science of genetics to the issues of today through interesting and thought provoking applications Essentials 3 E presents a balanced coverage of both classical and modern genetics Courses can be found in biology zoology agriculture and health science **Biology**, 1986

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substances that produce hydroxide ions in solution neutralization happens because hydrogen ions and hydroxide ions react to

produce water $\text{H}^+ + \text{OH}^- \rightarrow \text{H}_2\text{O}$ $\text{HCl} + \text{NaOH} \rightarrow \text{NaCl} + \text{H}_2\text{O}$ hydrochloric

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web aug 15 2020 the equilibrium formulated in scheme 1 between hydrogen ion and the corresponding acid and base can

be called a simple acid base equilibrium by mixing two simple systems a double acid base system and an acid base

equilibrium result that can always be formulated as follows $\text{acid}_1 + \text{base}_2 \rightleftharpoons \text{acid}_2 + \text{base}_1$

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species that is capable of accepting a proton which requires a lone pair of electrons to bond to the H^+ water is amphoteric

which means it can act as both a brønsted lowry acid and a brønsted lowry base

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web the A^- ion is a base because it is accepting a proton from the H_2O the reversible reaction contains two acids and two

bases we think of them in pairs called conjugate pairs when the acid HA loses a proton it forms a base A^- when the base A^-

accepts a proton back again it obviously reforms the acid HA

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discovery by 1890 the swedish chemist svante arrhenius 1859 1927 was able to formulate the first useful theory of acids

Arrhenius definition an acidic substance is one whose molecular unit contains at least one

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