

# Algebra 2 Honors

## Independent & Dependent Events

### Bound-Book Foldable

#### LESSON 8:

#### INDEPENDENT AND DEPENDENT EVENTS

**INDEPENDENT EVENTS** - When the outcome of one event does not affect the outcome of a second event, the two events are independent.

**DEPENDENT EVENTS** - When the outcome of one event affects the outcome of a second event, the two events are dependent.

**MUTUALLY EXCLUSIVE EVENTS** - When two events cannot happen at the same time, the events are mutually exclusive events. If A and B are mutually exclusive events, then  $P(A \text{ and } B) = 0$ .

#### PROBABILITY OF A and B

If A and B are independent events, then  $P(A \text{ and } B) = P(A) \cdot P(B)$ . You need to draw what the events A and B are mutually exclusive before you can find the probability of A or B.

#### PROBABILITY OF A or B

If A and B are mutually exclusive events  $P(A \text{ or } B) = P(A) + P(B)$

If A and B are not mutually exclusive events  $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$

#### Finding Probability of Dependent

**EX #3:** A drawer contains 10 white socks and 5 blue socks. Caleb reaches in the drawer, looking and selects 2 socks.

A. What is the probability that he selects 2 white socks?  
 $\frac{2}{3} \left( \frac{8}{18} \right) \left( \frac{7}{17} \right) = \frac{1}{3}$

B. What is the probability that he selects 1 blue sock and then one white sock?  
 $P(\text{blue and white}) = \left( \frac{1}{3} \right) \left( \frac{8}{17} \right)$

C. What is the probability that he selects 2 blue socks?  
 $P(\text{not blue}) = \frac{10}{18} = \frac{5}{9}$

**EX #4:** A basket contains 10 yellow, 8 orange, and 2 green tennis balls. Without looking, you select 3 tennis balls.

A. What is the probability that she selects 3 yellow tennis balls?  
 $\left( \frac{10}{20} \right) \left( \frac{9}{19} \right) \left( \frac{8}{18} \right) = \left( \frac{1}{2} \right) \left( \frac{3}{19} \right)$

B. What is the probability that she selects 2 orange tennis balls?  
 $\frac{12}{20} = \frac{\text{favorable outcomes}}{\text{total outcomes in S}}$

#### Dependent Independent

**EX #5:** Two cards are selected from a deck of 52. Determine whether the events are independent or dependent. Then find the probability.

A. Selecting two diamonds when the first card is replaced.  
independent, since replacement will not affect second selection

$$P(\heartsuit) \cdot P(\heartsuit) = \left( \frac{13}{52} \right) \left( \frac{13}{52} \right) = \frac{1}{16}$$

B. Selecting two diamonds when the first card is not replaced.  
dependent, since there will be fewer cards from which to choose

$$P(\heartsuit | \heartsuit) = P(\heartsuit) \cdot P(\heartsuit | \text{first } \heartsuit) = \left( \frac{13}{52} \right) \left( \frac{12}{51} \right) = \frac{2}{51} = \frac{1}{17}$$

C. A King is drawn, is not replaced, Queen is drawn.

dependent, since there are fewer cards

$$P(K | Q) = P(K) \cdot P(Q) = \left( \frac{4}{52} \right) \left( \frac{4}{51} \right) = \left( \frac{1}{13} \right) \left( \frac{4}{51} \right) = \frac{4}{663}$$



# Independent Events Homework Algebra Unit 12 Answers

**Maria Souful**



## **Independent Events Homework Algebra Unit 12 Answers:**

Kendall/Hunt Pre-algebra Teacher Guide , Middle School Math, Course 1 McDougal Littell Incorporated,2004

**Conceptual Model-Based Problem Solving** Yan Ping Xin,2013-02-11 Are you having trouble in finding Tier II intervention materials for elementary students who are struggling in math Are you hungry for effective instructional strategies that will address students conceptual gap in additive and multiplicative math problem solving Are you searching for a powerful and generalizable problem solving approach that will help those who are left behind in meeting the Common Core State Standards for Mathematics CCSSM If so this book is the answer for you The conceptual model based problem solving COMPS program emphasizes mathematical modeling and algebraic representation of mathematical relations in equations which are in line with the new Common Core Through building most fundamental concepts pertinent to additive and multiplicative reasoning and making the connection between concrete and abstract modeling students were prepared to go above and beyond concrete level of operation and be able to use mathematical models to solve more complex real world problems As the connection is made between the concrete model or students existing knowledge scheme and the symbolic mathematical algorithm the abstract mathematical models are no longer alien to the students As Ms Karen Combs Director of Elementary Education of Lafayette School Corporation in Indiana testified It really worked with our kids One hallmark of mathematical understanding is the ability to justify why a particular mathematical statement is true or where a mathematical rule comes from <http://illustrativemathematics.org/standards> Through making connections between mathematical ideas the COMPS program makes explicit the reasoning behind math which has the potential to promote a powerful transfer of knowledge by applying the learned conception to solve other problems in new contexts Dr Yan Ping Xin s book contains essential tools for teachers to help students with learning disabilities or difficulties close the gap in mathematics wordproblem solving I have witnessed many struggling students use these strategies to solve word problems and gain confidence as learners of mathematics This book is a valuable resource for general and special education teachers of mathematics Casey Hord PhD University of Cincinnati Holt Algebra 1 2003 Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003 **Middle School Math, Course 3** McDougal Littell Incorporated,2004 Daily Fundamentals, Grade 6 Evan-Moor Educational Publishers,2022-10-14 The perfect way to begin your students school day Cross curricular daily practice gets your sixth grade students focused and engaged and ready to learn The daily lessons provide practice of language math and reading skills that support your core curriculum Mathematics for Elementary Teachers Thomas Sonnabend,1997 Using a highly interactive approach Sonnabend provides insight into the underlying concepts of elementary school mathematics The text includes coverage of problem solving reasoning sets arithmetic geometry measurements algebra computers statistics and probability Sonnabend s well organized lesson format encourages students to participate in the development and explanation of concepts establishing a solid understanding of mathematics *ENC Focus* ,2000

Mathematics & Science in the Real World ,2000      **Everyday Mathematics** ,2004 Contains easy to follow three part daily lesson plans This assists teachers in focusing on lesson objectives providing ongoing practice for all students and addressing individual student needs for a variety of populations A unit organizer provides learning goals planning and assessment support content highlights a materials chart suggestions for problem solving cross curricular links and options for individualizing Each guide is grade level specific      **Mathematics** GLENCOE,1995      **Glencoe Mathematics** ,2001

Building a Bridge Maria Soulful,2025-07-15 Imagine opening yourself up completely to the unknown This is the story of a friendship between two people who couldn't be more different They have nothing in common not gender age family status culture or religion Between them lies a chasm of ignorance and prejudice and a pandemic that gives them the time to build a bridge It is the story of a change of perspective and what can come of it This book is also a socio cultural reflection on the question What would be possible if we broke down enemy stereotypes in the world in order to solve the world's problems together It is a plea for acceptance openness and humanity and for discovering the gift that lies hidden in these values for all of us      **Math Advantage, Grade 3** Harcourt Brace Publishing,1997-06      Principles of Everyday Behavior Analysis L. Keith Miller,1980 teaches the basic principles of behavior analysis by an extensive use of everyday examples that show the students how these principles operate in their own lives      **The Software Encyclopedia** ,1988      **Teacher** ,1978

Children's Books in Print, 2007 ,2006      Instructor ,1970-02      **Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed** National Information Center for Special Education Materials,1978

## Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Independent Events Homework Algebra Unit 12 Answers**

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