

Charles M. Grinstead and J. Laurie Snell:  
INTRODUCTION to PROBABILITY  
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Solutions to the exercises

SECTION 1.1

1. As  $n$  increases, the *proportion* of heads gets closer to  $1/2$ , but the *difference* between the number of heads and half the number of flips tends to increase (although it will occasionally be 0).
3. (b) If one simulates a sufficiently large number of rolls, one should be able to conclude that the gamblers were correct.
5. The smallest  $n$  should be about 150.
7. The graph of winnings for betting on a color is much smoother (i.e. has smaller fluctuations) than the graph for betting on a number.
9. Each time you win, you either win an amount that you have already lost or one of the original numbers 1,2,3,4, and hence your net winning is just the sum of these four numbers. This is not a foolproof system, since you may reach a point where you have to bet more money than you have. If you and the bank had unlimited resources it would be foolproof.
11. For two tosses, the probabilities that Peter wins 0 and 2 are  $1/2$  and  $1/4$ , respectively. For four tosses, the probabilities that Peter wins 0, 2, and 4 are  $3/8$ ,  $1/4$ , and  $1/16$ , respectively.
13. Your simulation should result in about 25 days in a year having more than 60 percent boys in the large hospital and about 55 days in a year having more than 60 percent boys in the small hospital.
15. In about 25 percent of the games the player will have a streak of five.

SECTION 1.2

1.  $P(\{a, b, c\}) = 1$        $P(\{a\}) = 1/2$   
 $P(\{a, b\}) = 5/6$        $P(\{b\}) = 1/3$   
 $P(\{b, c\}) = 1/2$        $P(\{c\}) = 1/6$   
 $P(\{a, c\}) = 2/3$        $P(\emptyset) = 0$
3. (b), (d)
5. (a)  $1/2$   
(b)  $1/4$   
(c)  $3/8$   
(d)  $7/8$
7.  $11/12$
9.  $3/4, 1$
11.  $1:12, 1:3, 1:35$
13.  $11:4$
15. Let the sample space be:  
 $\omega_1 = \{A, A\}$        $\omega_2 = \{B, A\}$        $\omega_7 = \{C, A\}$

# Introduction To Probability Solutions Manual Grinstead Snell

**Melanie H. Ross, Sheldon M. Ross**



## **Introduction To Probability Solutions Manual Grinstead Snell:**

Introduction to Probability Charles Miller Grinstead, James Laurie Snell, 2012-10-30 This text is designed for an introductory probability course at the university level for sophomores juniors and seniors in mathematics physical and social sciences engineering and computer science It presents a thorough treatment of ideas and techniques necessary for a firm understanding of the subject The text is also recommended for use in discrete probability courses The material is organized so that the discrete and continuous probability discussions are presented in a separate but parallel manner This organization does not emphasize an overly rigorous or formal view of probability and therefore offers some strong pedagogical value Hence the discrete discussions can sometimes serve to motivate the more abstract continuous probability discussions Features Key ideas are developed in a somewhat leisurely style providing a variety of interesting applications to probability and showing some nonintuitive ideas Over 600 exercises provide the opportunity for practicing skills and developing a sound understanding of ideas Numerous historical comments deal with the development of discrete probability The text includes many computer programs that illustrate the algorithms or the methods of computation for important problems

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**Whitaker's Books in Print** ,1998      **Books In Print 2004-2005** Ed Bowker Staff, Staff Bowker, Ed, 2004

*Introduction to Probability - Solutions Manual* Aunon,      **Student Solutions Manual for Introduction to Probability** Mark Ward, Ellen Gundlach, 2015-08-24 Unlike most probability textbooks which are only truly accessible to mathematically

oriented students Ward and Gundlach's *Introduction to Probability* reaches out to a much wider introductory level audience. Its conversational style, highly visual approach, practical examples, and step by step problem solving procedures help all kinds of students understand the basics of probability theory and its broad applications. The book was extensively class tested through its preliminary edition to make it even more effective at building confidence in students who have viable problem solving potential but are not fully comfortable in the culture of mathematics.

*Introduction to Probability* Charles Miller Grinstead, 2004      *#Introduction to Probability*, 2009      **Solutions Manual for Introduction to Probability and Statistics** Barbara M. Beaver, 1975      *Solutions Manual for Introduction to Probability and Statistics for Engineers and Scientists* Sheldon M. Ross, 2000      Complete Solutions Manual, Eighth Edition, Introduction to Probability and Statistics, William Mendenhall, Robert J. Beaver Barbara M. Beaver, 1991      *Solutions Manual for Introduction to Probability and Statistics, 2nd Ed., William Mendenhall* Barbara Mattick, 1969      Introduction to Probability and Statistics Melanie H. Ross, Sheldon M. Ross, 1987-12      *Introduction to Probability and Statistics* Beaver, 1987-05-01      An Introduction to Applied Probability Richard A. Roberts, 1992-01      **Introduction to Probability + Student Solutions Manual**,

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