

$$P(A) = \frac{11}{36}$$

B.

$$\{(1,5)(5,1)(4,2)(2,4)(3,3)\}$$

$$P(B) = \frac{5}{36}$$

$$(A \cap B) = (2, 4) (4, 2)$$

$$P(A/B) = \frac{2}{36}$$

$$P(A/B) = \frac{P(A \cap B)}{P(B)} = \frac{\frac{2}{36}}{\frac{5}{36}} = \frac{2}{5}$$

12. In how many different ways can 5 red, 3 blue, and 4 green bulbs be arranged in a Christmas tree lights with 12 sockets?

SOLUTION:

$$\begin{aligned} P &= \frac{n}{n_1! n_2! n_3!} \\ &= \frac{(5!)(3!)(4!)}{12!} \\ &= \frac{17280}{12!} \\ &= \mathbf{27720} \end{aligned}$$

13. If $P(A) = \frac{1}{2}$, $P(B) = \frac{1}{3}$, $P(A \cup B) = \frac{1}{2}$ determine:

- $P(B/A)$
- $P(A/B)$

SOLUTION:

$$\begin{aligned} \text{A. } P(B/A) &= \frac{P(A \cap B)}{P(A)} = \frac{\frac{1}{6}}{\frac{1}{2}} = \frac{2}{3} \text{ or } \frac{1}{3} \\ 4 - x + x + 3 - x &= 6 \\ 7 - x &= 6 \\ -x &= -1 \\ x &= 1 \end{aligned}$$

$$\begin{aligned} \text{B. } P(A/B) &= \frac{P(A \cap B)}{P(B)} = \frac{\frac{1}{6}}{\frac{1}{3}} = \frac{1}{2} \\ P(B) &= S - B = 1 - \frac{1}{4} = \frac{3-1}{4} = \frac{2}{4} \quad P(A \cap B) = 1/4 \end{aligned}$$

14. How many ways can you line up the 5 persons?

SOLUTION:

$$5 \times 4 \times 3 \times 2 \times 1 = \mathbf{120}$$

15. Consider another example where a pack contains 4 blue, 2 red and 3 black pens. If a pen is

drawn at random from the pack, replaced and the process repeated 2 more times. What is the probability of drawing 2 blue pens and 1 black pen?

SOLUTION:

Here, total number of pens = 9
 Probability of drawing 1 blue pen = $4/9$
 Probability of drawing another blue pen = $4/9$
 Probability of drawing 1 black pen = $3/9$
 Probability of drawing 2 blue pens and 1 black pen = $4/9 \times 4/9 \times 3/9 = \mathbf{8/81}$

16. At a car park there are 100 vehicles, 60 of which are cars, 30 are vans and the remainder are lorries. If every vehicle is equally likely to leave, find the probability of:
- van leaving first.
 - lorry leaving first.
 - car leaving second if either a lorry or van had left first.

SOLUTION:

a) Let S be the sample space and A be the event of a van leaving first.
 $n(S) = 100$
 $n(A) = 30$
 Probability of a van leaving first:
 $n(B) = 100 - 60 - 30 = 10$
 Probability of a lorry leaving first:
 c) If either a lorry or van had left first, then there would be 99 vehicles remaining, 60 of which are cars. Let T be the sample space and C be the event of a car leaving.
 $n(T) = 99$
 $n(C) = 60$

17. A pack contains 4 blue, 2 red and 3 black pens. If 2 pens are drawn at random from the pack, NOT replaced and then another pen is drawn. What is the probability of drawing 2 blue pens and 1 black pen?

SOLUTION:

Probability of drawing 1 blue pen = $4/9$
 Probability of drawing another blue pen = $3/8$
 Probability of drawing 1 black pen = $3/7$

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SB Merriam



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Certificate Mathematics Form 3 , Scientific and Technical Aerospace Reports ,1979 Dangerous Decisions

E. Mumford,2007-08-28 In a world where technology is continually advancing and problems are becoming more and more complex established practices for decision making and problem solving are no longer effective In this new book however Enid Mumford draws on her wealth of experience in management business schools and working with the police and other professional problem solvers to show us how to tackle complex problems efficiently With drugs and cyber crime as her main examples Professor Mumford shows how these topical yet apparently permanent problems could be approached She does this by looking at how the criminals themselves have overcome legal obstacles and other problems to make the drug trafficking industry the second largest in the world today and the relative newcomer electronic fraud a multi billion dollar problem already These crimes which in themselves lead to more crime from petty theft to support a drug habit to international money laundering are incredibly complex and yet the book shows us that there is not only a way forward with these issues but a way to approach all complex problems with efficiency and competency wherever they occur in our lives

SOFSEM 2012: Theory and Practice of Computer Science Mária Bieliková, Gerhard Friedrich, Georg Gottlob, Stefan Katzenbeisser, György Turán, 2012-01-09 This book constitutes the refereed proceedings of the 38th Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2012 held in pindler v Ml n Czech Republic in January 2012 The 43 revised papers presented in this volume were carefully reviewed and selected from 121 submissions The book also contains 11 invited talks 10 of which are in full paper length The contributions are organized in topical sections named foundations of computer science software and Web engineering cryptography security and verification and artificial intelligence Resources in education ,1982-11 *Foundations of Probabilistic Logic Programming* Fabrizio

Riguzzi, 2018-09-01 Probabilistic Logic Programming extends Logic Programming by enabling the representation of uncertain information Probabilistic Logic Programming is at the intersection of two wider research fields the integration of logic and probability and Probabilistic Programming Logic enables the representation of complex relations among entities while probability theory is useful for model uncertainty over attributes and relations Combining the two is a very active field of study Probabilistic Programming extends programming languages with probabilistic primitives that can be used to write complex probabilistic models Algorithms for the inference and learning tasks are then provided automatically by the system Probabilistic Logic programming is at the same time a logic language with its knowledge representation capabilities and a Turing complete language with its computation capabilities thus providing the best of both worlds Since its birth the field of Probabilistic Logic Programming has seen a steady increase of activity with many proposals for languages and algorithms for inference and learning Foundations of Probabilistic Logic Programming aims at providing an overview of the field with a special emphasis on languages under the Distribution Semantics one of the most influential approaches The book presents

the main ideas for semantics inference and learning and highlights connections between the methods Many examples of the book include a link to a page of the web application <http://cplint.eu> where the code can be run online

Mathematics via Problems: Part 2: Geometry Alexey A. Zaslavsky, Mikhail B. Skopenkov, 2021-08-24 This book is a translation from Russian of Part II of the book *Mathematics Through Problems From Olympiads and Math Circles to Profession* Part I Algebra was recently published in the same series Part III Combinatorics will be published soon The main goal of this book is to develop important parts of mathematics through problems The authors tried to put together sequences of problems that allow high school students and some undergraduates with strong interest in mathematics to discover and recreate much of elementary mathematics and start edging into more sophisticated topics such as projective and affine geometry solid geometry and so on thus building a bridge between standard high school exercises and more intricate notions in geometry Definitions and or references for material that is not standard in the school curriculum are included To help students that might be unfamiliar with new material problems are carefully arranged to provide gradual introduction into each subject Problems are often accompanied by hints and or complete solutions The book is based on classes taught by the authors at different times at the Independent University of Moscow at a number of Moscow schools and math circles and at various summer schools It can be used by high school students and undergraduates their teachers and organizers of summer camps and math circles In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people their parents and teachers and the mathematics profession

NASA Scientific and Technical Reports United States. National Aeronautics and Space Administration Scientific and Technical Information Division, 1966

A Selected Listing of NASA Scientific and Technical Reports for ... United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1965

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