

Solutions

① Short Questions:

a) Given A and B are independent.

Now,

$$\begin{aligned}P(A^c \cap B^c) &= P(A \cup B)^c = 1 - P(A \cup B) \\&= 1 - [P(A) + P(B) - P(A \cap B)] \\&= 1 - P(A) - P(B) + P(A)P(B) \\&= [1 - P(B)] - P(A)[1 - P(B)] \quad [\because A, B \text{ are independent}] \\&= [1 - P(A)][1 - P(B)] = P(A)^c P(B)^c\end{aligned}$$

 $\therefore A^c$ and B^c are also independent.

$$\begin{aligned}\text{b) } P(A \cup B) &= P[A \cup (A^c \cap B)] \\&= P(A) + P(A^c \cap B) \\&= P(A) + P(B) - P(A \cap B) \\&\Rightarrow P(A \cup B) + P(A \cap B) = P(A) + P(B)\end{aligned}$$

$$\Rightarrow P(A \cup B) \leq P(A) + P(B) \quad [\because P(A \cap B) \geq 0]$$

↓
for mutually exclusive event

c) Given first 'N' natural numbers.

$$\text{Mean} = \frac{N+1}{2} = \frac{N(N+1)/2}{N}$$

Now, if N is odd, then

$$\text{Median} = \left(\frac{N+1}{2}\right)\text{th term.}$$

If N is even, then

$$\text{Median} = \left[\frac{N}{2}\text{th term} + \left(\frac{N}{2} + 1\right)\text{th term}\right] / 2$$

Basic Statistics Problems And Solutions

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Basic Statistics Problems And Solutions:

Statistics: Problems And Solution (Second Edition) Eryl E Bassett, J Mike Bremner, Byron Jones, Byron J T Morgan, P M North, Ian T Jolliffe, 2000-06-27 Originally published in 1986 this book consists of 100 problems in probability and statistics together with solutions and most importantly extensive notes on the solutions The level of sophistication of the problems is similar to that encountered in many introductory courses in probability and statistics At this level straightforward solutions to the problems are of limited value unless they contain informed discussion of the choice of technique used and possible alternatives The solutions in the book are therefore elaborated with extensive notes which add value to the solutions themselves The notes enable the reader to discover relationships between various statistical techniques and provide the confidence needed to tackle new problems

Challenging Mathematical Problems with Elementary Solutions A. M. Yaglom, I. M. Yaglom, 2013-04-26 Volume I of a two part series this book features a broad spectrum of 100 challenging problems related to probability theory and combinatorial analysis Most can be solved with elementary mathematics Complete solutions

Challenging Mathematical Problems with Elementary Solutions ? . ? ?????, Isaak Moiseevich I? Aglom, Basil Gordon, 1987-01-01 Volume II of a two part series this book features 74 problems from various branches of mathematics Topics include points and lines topology convex polygons theory of primes and other subjects Complete solutions

Solution Manual for Partial Differential Equations for Scientists and Engineers Stanley J. Farlow, 2020-07-15 Originally published by John Wiley and Sons in 1983 Partial Differential Equations for Scientists and Engineers was reprinted by Dover in 1993 Written for advanced undergraduates in mathematics the widely used and extremely successful text covers diffusion type problems hyperbolic type problems elliptic type problems and numerical and approximate methods Dover's 1993 edition which contains answers to selected problems is now supplemented by this complete solutions manual

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The Solution of Equations in Integers A. O. Gelfond, 2018-04-18 Covering applications to physics and engineering as well this relatively elementary discussion of algebraic equations with integral coefficients and with more than one unknown will appeal to students and mathematicians from high school level onward 1961 edition

Understanding Basic Statistics Student Solutions Manual Brase, Charles Henry Brase, 2000-09

Statistics in Plain English Timothy C. Urda, 2005 This book is meant to be a supplement to a more detailed statistics textbook such as that recommended for a statistics course in the social sciences Also as a reference book to refresh your memory about statistical concepts

Minnesota Journal of Education, 1929

School Executives Magazine, 1929

An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994

Teachers Monographs, 1926

New York Teachers' Monographs, 1926

The School Executive, 1930

Using Basic Statistics in the Behavioral Sciences Annabel Ness Evans, 1992 This text introduces the essentials of the statistical

technique Rather than rote memorization of formulae the emphasis is on developing an understanding of the underlying logic of statistics Toward that end the author uses an informal prose style and avoids overwhelming the reader with complex notation and derivation Numerous exercises and problems graded for difficulty A list of Greek symbols used in statistics is found inside the front cover for quick reference

The Cumulative Book Index ,1930 *Statistical Techniques in Business and Economics* Robert Deward Mason,1970 Brentano's Chess Monthly ,1882 *Year Book* American Institute of Actuaries,1928 **PC AI.** ,1999

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