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## **Probability Theory: Collection of Problems**

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Dorogovtsev (Author), D. S. Silvestrov  
(Author), A. V. Skorokhod (Author), M.  
I. Yadrenko (Author) & 1 more.

ISBN-13: 978-0821868669. ISBN-10:  
0821868667.

## **Amazon.com: Probability Theory: Collection of Problems ...**

Basic formula of probability. As you  
might know from the list of GMAT  
maths formulas, the Probability of the  
occurrence of an event A is defined  
as:  $P(A) = (\text{No. of ways A can occur}) /$



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(Total no. of possible outcomes)

Another example is the rolling of dice. When a single die is rolled, the sample space is  $\{1,2,3,4,5,6\}$ .

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If the two players repeat the same bet  $n$  times with  $n$  suitably large, and if the bet is fair according to the definition above with player one betting 1 kroner on event  $A$ . each time, then in the  $i$ 'th bet, player one won.  $\mathbb{1}_A(x_i)$   $\mathbb{1}_{A^c}(x_i)$ , because this equals  $\mathbb{1}_A$  if event  $A$  came out and  $\mathbb{1}_{A^c}$  if  $A$  came out.

## **Probability Theory and Statistics**

Probability theory is the branch of mathematics concerned with probability. Although there are several different probability interpretations,

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Probability theory treats the concept in a rigorous mathematical manner by expressing it through a set of axioms. Typically these axioms formalise probability in terms of a probability space, which assigns a measure taking values between 0 and 1, termed the probability measure, to a set of outcomes called the sample space. Any specified subset of these out

## **Probability theory - Wikipedia**

Collection of problems in probability theory by L. D. Meshalkin English | PDF | 1973 | 156 Pages | ISBN : 9401023603 | 9.25 MB The Russian version of A collection of problems in probability theory contains a chapter devoted to statistics.

## **Collection of problems in probability theory / AvaxHome**

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In probability theory, the coupon collector's problem describes "collect all coupons and win" contests. It asks the following question: If each box of a brand of cereals contains a coupon, and there are  $n$  different types of coupons, what is the probability that more than  $t$  boxes need to be bought to collect all  $n$  coupons? An alternative statement is: Given  $n$  coupons, how many coupons do you expect you need to draw with replacement before having drawn each coupon at least once? The mathematical a

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