#### Part 1 - Multiple Choice - 2 points each

- A randomly selected student is asked to respond to yes, no, or maybe, to the question, "Do you watch TV when you eat dinner?" The sample space is (always, often, seldom, never). Which of the following represents a legitimate assignment of probabilities for this sample space?
  - a) .25, .25, .25 b) .4, .3, .1, .2 c) .5, .4, 0, .1 d) 0, 0, 0, 1

- e) all of these
- If you choose a card at random from a well-shuffled deck of 52 cards, what is the probability that the card chosen is read eard or an ace?
  - a) .5

b) .577

c) 558

d) .038

- e) none of these
- 3. You play tennis regularly with a friend and from past experience, you believe that the outcome of each match is independent. For any given match, you have a probability of .6 of winning. The probability that you win at least one of the next two matches is
  - a) .36

b) 64

c) .84

 $d) \cdot 16$ 

e) none of these

- If P(A) = .38 and P(B) = .61 and A and B are independent, what is P(A or B)?
  - a) .2318

- b) .99
- c) .7582
- d) .6162
- e) not enough info

The next 3 problems deal with the following situation. Lexus automobiles come in the following colors with the following probabilities.

White	Black	Red	Silver	Gold
.46	.22	.09	2111	112

- 5. The probability that I do not choose a white or black car is:
  - a) .68

b) .46

c) .20

d) .32

e) none of these

- 6. If I select 2 cars, what is the probability that the two cars are the same color?
  - a) .2116

b) .2946

c) 2

dD .044

e) none of these

- 7. If I select 2 cars, what is the probability that the two cars are different colors?
  - a) .7054

Б) .7884

c) 38

d) 64

- e) none of these
- 8. Event A occurs with probability  $\frac{1}{3}$  and event B with probability  $\frac{3}{5}$ . If A and B are disjoint, then:
  - a)  $P(A \text{ and } B) = \frac{1}{5}$

b) P (A or B) =  $\frac{1}{5}$ 

c)  $P(A \text{ or } B) = \frac{14}{16}$ 

d)  $P(A \text{ and } B) = \frac{2}{3}$ 

e) depends on whether the events are independent

# **Probability And Statistics Multiple Choice Test**

M. S. Bartlett

### **Probability And Statistics Multiple Choice Test:**

<u>Statistics Subject PDF eBook- Multiple Choice Objective Questions With Answers</u> Chandresh Agrawal, Nandini Books, 2025-03-20 SGN The Statistics Subject PDF eBook Covers Multiple Choice Objective Questions With Answers

Statistics and Probability in High School Carmen Batanero, Manfred Borovcnik, 2016-07-27 Statistics and probability are fascinating fields tightly interwoven with the context of the problems which have to be modelled The authors demonstrate how investigations and experiments provide promising teaching strategies to help high school students acquire statistical and probabilistic literacy In the first chapter the authors put into practice the following educational principles reflecting their views of how these subjects should be taught a focus on the most relevant ideas and postpone extensions to later stages illustrating the complementary dual nature of statistical and probabilistic reasoning utilising the potential of technology and show its limits and reflecting on the different levels of formalisation to meet the wide variety of students previous knowledge abilities and learning types The remaining chapters deal with exploratory data analysis modelling information by probabilities exploring and modelling association and with sampling and inference Throughout the book a modelling view of the concepts guides the presentation In each chapter the development of a cluster of fundamental ideas is centred around a statistical study or a real world problem that leads to statistical questions requiring data in order to be answered The concepts developed are designed to lead to meaningful solutions rather than remain abstract entities For each cluster of ideas the authors review the relevant research on misconceptions and synthesise the results of research in order to support teaching of statistics and probability in high school What makes this book unique is its rich source of worked through tasks and its focus on the interrelations between teaching and empirical research on understanding statistics and probability

Statistics for Lawyers Michael O. Finkelstein, Bruce Levin, 2006-04-18 Designed to introduce law students law teachers practitioners and judges to the basic ideas of mathematical probability and statistics as they have been applied in the law the book consists of sections of exposition followed by real world cases and case studies in which stastical data have played a role Readers are asked to apply the theory to the facts to calculate results a pocket calculator is sufficient and to explore legal issues raised by quantitative findings while the author s own calculations and comments are given in the back of the book The cases and case studies reflect a broad variety of legal subjects including antidiscrimination mass torts taxation school finance identification evidence preventive detention handwriting disputes voting environmental protection antitrust and the death penalty The first edition has been used in law statistics and social science courses and in 1991 was selected by the University of Michigan Law Review as one of the important law books of the year This second edition includes many new problems reflecting current developments in the law including a new chapter on epidemiology Probability, Statistics, and Stochastic Processes for Engineers and Scientists Aliakbar Montazer Haghighi, Indika Wickramasinghe, Emmanuel A. Appiah, 2020-07-14 2020 Taylor Francis Award Winner for Outstanding New Textbook Featuring recent advances in the field

this new textbook presents probability and statistics and their applications in stochastic processes. This book presents key information for understanding the essential aspects of basic probability theory and concepts of reliability as an application The purpose of this book is to provide an option in this field that combines these areas in one book balances both theory and practical applications and also keeps the practitioners in mind Features Includes numerous examples using current technologies with applications in various fields of study Offers many practical applications of probability in queueing models all of which are related to the appropriate stochastic processes continuous time such as waiting time and fuzzy and discrete time like the classic Gambler's Ruin Problem Presents different current topics like probability distributions used in real world applications of statistics such as climate control and pollution Different types of computer software such as MATLAB Minitab MS Excel and R as options for illustration programing and calculation purposes and data analysis Covers reliability and its application in network queues Probability, Statistics, and Random Signals Charles G. Boncelet, 2016 Probability Statistics and Random Signals offers a comprehensive treatment of probability giving equal treatment to discrete and continuous probability The topic of statistics is presented as the application of probability to data analysis not as a cookbook of statistical recipes This student friendly text features accessible descriptions and highly engaging exercises on topics like gambling the birthday paradox and financial decision making Probability, Statistics, And Decision Making In The Atmospheric Sciences Allan Murphy, Richard W. Katz, 2019-07-11 Methodology drawn from the fields of probability statistics and decision making plays an increasingly important role in the atmosphericsciences both in basic and applied research and in experimental and operational studies Applications of such methodology can be found in almost every facet of the discipline from the most theoretical and global e g atmospheric predictability global climate modeling to the most practical and local e g crop weather modeling forecast evaluation Almost every issue of the multitude of journals published by the atmospheric sciences community now contain some or more papers involving applications of concepts and or methodology from the fields of probability and statistics Despite the increasingly pervasive nature of such applications very few book length treatments of probabilistic and statistical topics of particular interest to atmospheric scientists have appeared especially in English since the publication of the pioneering works of Brooks and Carruthers Handbook of Statistical Methods in Meteorology in 1953 and Panofsky and Brier some Applications of statistics to Meteor in 1958 As a result many relatively recent developments in probability and statistics are not well known to atmospheric scientists and recent work in active areas of meteorological research involving significant applications of probabilistic and statistical methods are not familiar to the meteorological community as a whole **Probability, Statistics, and Decision for Civil Engineers** Jack R Benjamin, C. Allin Cornell, 2014-07-16 This text covers the development of decision theory offering extensive examples and illustrations that cultivate students appreciation for applications strength of materials soil mechanics construction planning water resource design and more 1970 edition **ACT Total Prep 2025: Includes 2,000+ Practice Questions + 6 Practice Tests** 

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