

2019 AP® STATISTICS FREE-RESPONSE QUESTIONS

STATISTICS

SECTION II

Part A

Questions 1-5

Spend about 1 hour and 5 minutes on this part of the exam.

Percent of Section II score—75

Directions: Show all your work. Indicate clearly the methods you use, because you will be scored on the correctness of your methods as well as on the accuracy and completeness of your results and explanations.

1. The sizes, in square feet, of the 20 rooms in a student residence hall at a certain university are summarized in the following histogram.



- (a) Based on the histogram, write a few sentences describing the distribution of room size in the residence hall.
 (b) Summary statistics for the sizes are given in the following table.

Mean	Standard Deviation	Min	Q1	Median	Q3	Max
231.4	68.12	134	174	253.5	292	315

- Ⓐ The spread is about $(350 - 100) = 250 \text{ ft}^2$.
 The distribution is roughly bimodal and approximately symmetric. The median is around 250. The min is around 100 and the max is around 350.
- Ⓑ $IQR = 292 - 134 = 118$
 No outliers
- Upper bound = $Q_3 + 1.5 \times IQR = 292 + 1.5 \times 118 = 467$
 Lower bound = $Q_1 - 1.5 \times IQR = 134 - 1.5 \times 118 = -3$

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Statistics Robin H. Lock, Patti Frazer Lock, Kari Lock Morgan, Eric F. Lock, Dennis F. Lock, 2025-12-16 Statistics Unlocking the Power of Data 4th Edition with corequisite support content is designed for an introductory statistics course focusing on data analysis using real world data and applications Students use simulation methods to effectively collect analyze and interpret data to draw conclusions Randomization and bootstrap interval methods introduce the fundamentals of statistical inference bringing concepts to life through authentically relevant examples More traditional methods like t tests chi square tests etc are introduced after students have developed a strong intuitive understanding of inference through randomization methods While any popular statistical software package may be used the authors have created StatKey to perform simulations using data sets and examples from the text A variety of videos activities and a modular chapter on probability are adaptable to many classroom formats and approaches

2014 International Conference on Advanced Education and Management (ICAEM2014), 2014-02-13 The ICAEM2014 aims to bring together researchers educators and students from around the world in both industry and academia for sharing the state of art research results and applications for exploring new areas of research and development and for discussing emerging issues on education and management fields We received a total of 312 submissions from various parts of the world The Technical Program Committee worked very hard to have all papers reviewed before the review deadline The final technical program consists of 92 papers There are one keynote speech and 2 invited sessions The proceedings were published by DEStech Publications Inc and will be submitted to Ei Compendex databases for indexing We would like to mention that due to the limitation of the conference venue capacity we are not able to include many fine papers in the technical program Our apology goes to those authors

Indirect Methods of Data Collection and Analysis from Surveys Raghunath Arnab, 2025-05-02 This book provides a chronological comprehensive and up to date review of indirect methods of data collection from the human population such as randomized response non randomized response item count item sum nominative and negative questioning techniques Such surveys include questionnaires on sensitive issues such as domestic violence the history of induced abortion involvement in fraud plagiarism affiliation with political parties opinion of government policies and religious practices to name a few The book also studies methods of drawing inferences from such data The methods provided in the book can be applied to any complex survey design and a wide class of estimators This book may serve as a handbook of indirect survey methodologies as readers may receive a wide spectrum of materials from this book alone Most of the randomized response RR techniques are described with the aid of diagrams so that readers can easily understand the randomization techniques their applicability and their complexity in real surveys Applications of different indirect survey methodologies in various areas are presented

ECRM2014-Proceedings of the 13th European Conference on Research Methodology for Business and Management Studies Dr Martin Rich, Dr Anne Brown, 2014-06-16 **The Cambridge Handbook of Research Methods and Statistics**

for the Social and Behavioral Sciences Austin Lee Nichols, John Edlund, 2023-06-08 The first of three volumes the five sections of this book cover a variety of issues important in developing designing and analyzing data to produce high quality research efforts and cultivate a productive research career First leading scholars from around the world provide a step by step guide to doing research in the social and behavioral sciences After discussing some of the basics the various authors next focus on the important building blocks of any study In section three various types of quantitative and qualitative research designs are discussed and advice is provided regarding best practices of each The volume then provides an introduction to a variety of important and cutting edge statistical analyses In the last section of the volume nine chapters provide information related to what it takes to have a long and successful research career Throughout the book example and real world research efforts from dozens of different disciplines are discussed How's Life? 2015 Measuring Well-being OECD, 2015-10-13 How s Life describes the essential ingredients that shape people s well being in OECD and partner countries It includes a wide variety of statistics capturing both material well being and quality of life This third edition includes a special focus on child well being **Research Success A Q&A Review Applying Critical Thinking to Test Taking** Geraldine N Valencia-GO, 2015-05-15 From an introduction to basic research concepts through design of quantitative and qualitative studies and data collection and analysis you ll review all aspects of nursing research and its application to real world practice Contemporary Health Issues on Marijuana Kevin Abraham Sabet-Sharghi, Kevin A. Sabet, Ken C. Winters, 2018 Resource added for the Nursing Associate Degree 105431 Practical Nursing 315431 and Nursing Assistant 305431 programs *Understanding and Investigating Response Processes in Validation Research* Bruno D. Zumbo, Anita M. Hubley, 2017-05-23 This volume addresses an urgent need across multiple disciplines to broaden our understanding and use of response processes evidence of test validity It builds on the themes and findings of the volume Validity and Validation in Social Behavioral and Health Sciences Zumbo Chan 2014 with a focus on measurement validity evidence based on response processes Approximately 1000 studies are published each year examining the validity of inferences made from tests and measures in the social behavioural and health sciences The widely accepted Standards for Educational and Psychological Testing 1999 2014 present five sources of evidence for validity content related response processes internal structure relationships with other variables and consequences of testing Many studies focus on internal structure and relationships with other variables sources of evidence which have a long history in validation research known methodologies and numerous exemplars in the literature Far less is understood by test users and researchers conducting validation work about how to think about and apply new and emerging sources of validity evidence This groundbreaking volume is the first to present conceptual models of response processes methodological issues that arise in gathering response processes evidence as well as applications and exemplars for providing response processes evidence in validation work **Analytical Perspectives: Budget of the U. S. Government Fiscal Year 2018** , 2017-05-23 Contains analyses that are designed to

highlight specified subject areas of the r provide other significant presentations of budget data that place the budget in perspective This volume includes the following information for the FY 2018 Federal Budget Fiscal Year 2018 runs from October 1 2017 through September 30 2018 economic and accounting analyses information on Federal receipts and collections analyses of Federal spending information on Federal borrowing and debt baseline or current service estimates other technical presentations Click here <https://bookstore.gpo.gov/catalog/budget/economy/federal/budgets/year/fiscal-year-2018-budget> to find the entire Fiscal Year 2018 U S Federal Budget collection

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