

Name: _____ Date: _____

1. Identify the Five-Number Summary number for the data of Johnny's test scores and draw the Box & Whisker plot.

92, 96, 97, 83, 92, 58, 93, 88, 77, 48, 65, 80, 71

Mean = 80

Min = 48, Q1 = 68, Median = 83, Q3 = 92.5, Max = 97

What is the range? 49

IQR? 24.5

MAD? 12.46

Are there any outliers in the data set?

No $68 - 1.5(24.5) = 31.25$ $92.5 + 1.5(24.5) = 129.25$



2. The table gives the low temperatures in Chicago on eight randomly selected winter days. Which measure of central tendency probably gives the **LEAST ACCURATE** prediction of a "typical" low temperature on a Chicago winter day?

Chicago Lows							
17	25	28	12	16	55	18	22

Mean = 24.125, Median = 20 The Mean is greatly affected by 55, which is an outlier.

3. Describe the shape of the distribution. Estimate the mean, median and upper and lower quartiles for the data.

Skewed right

Mean = between 20 - 25

Median = 20-25 for Person 9

Q1 = 15-20 between Person 4 and 5

Q3 = 30-35 between Person 13 and 14



4. Construct a frequency table from the following information:

A survey of 200 9th and 10th graders was given to determine what their favorite subject was. 72 said Math (50 which were freshmen), 38 said Social Studies (20 which were sophomores), and 40 freshmen and 50 sophomores said PE was their favorite.

	Math	SS	PE	Total
9th	50	18	40	108
10th	22	20	50	92
Total	72	38	90	200

Based on your table above, answer the following questions:

- What are the marginal relative frequencies? 36%, 19%, 45%, 54%, 46%
- What are the joint relative frequencies? 25%, 9%, 20%(top), 11%, 10%, 25%(bottom)
- What is the probability that a student surveyed is a freshman? 54%
- What is the probability that a student surveyed likes Math? 36%
- If a student likes Math, what is the probability that they are a freshman? 69.4%

Unit 4 Describing Data Test

Leslie Daly, Geoffrey J Bourke

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

Unit 4 Describing Data Test:

Real World Professional Learning Communities Daisy Arredondo Rucinski, 2016-12-08 In a professional learning community PLC teachers are organized into teams committed to meeting on a regular basis to study their teaching strategies and the effects of those strategies on the students in their classrooms The teacher teams can be of varied form and composition Whatever the organizational structure the teams have one goal that is to improve teaching so that student learning is improved Policy developers legislators and educational leaders have encouraged the adoption of collaborative professional learning teams as a school reform model for improving schools In this book we describe the results of studies of professional learning communities in real schools and the effects of the teams on student learning Much of the time school innovations are not examined in depth Instead authors and developers simply advocate that they be used In this book school principals and administrators describe how their teachers used the PLC teams to improve student learning in their schools In other words this book presents actual research on the effects of the use of PLCs rather than testimonials

Basic and Applied Salt Mechanics N.D. Cristescu, H.R. Hardy, R.O. Simionescu, 2020-12-18 Papers cover laboratory and in situ testing coupled effects and permeability creep damage and dilatancy constitutive modelling crushed salt behaviour numerical modelling storage and disposal projects mining applications case studies and salt pillars and cavities

The Unit Problem and Other Current Topics in Business Survey Methodology Mojca Bavdaž, Boris Lorenc, Paul A. Smith, 2018-11-07 This volume brings together a selection of papers presented at the 2017 European Establishment Statistics Workshop which have been revised and expanded here Several contributions will serve to deepen the reader's understanding of the unit problem in business statistics while further chapters showcase recent advances in business survey methodology and practice in areas such as linking and data integration sampling and estimation data collection from businesses measurement and mitigation of response burden in business surveys among others Written by leading experts in business statistics the volume offers detailed and up to date findings to survey methodologists and practitioners working with business statistics It will also be useful for readers in official statistics academia and the private sector

Tool and Manufacturing Engineers Handbook: Plastic Part Manufacturing Philip Mitchell, 1996-12-09 This volume focuses on the practical application of processes for manufacturing plastic products It includes information on design for manufacturability DFM material selection process selection dies molds and tooling extrusion injection molding blow molding thermoforming lamination rotational molding casting foam processing compression and transfer molding fiber reinforced processing assembly and fabrication quality plant engineering and maintenance management

Targeting Maths Gloria Harris, 2001 Targeting maths lower primary measurement

Resources in Education, 1990 *Technical News Bulletin*, 1971 *Dimensions*, 1971 *Technical News Bulletin of the National Bureau of Standards*, 1970

Science and the Global Environment Alan McIntosh, Jennifer Pontius, 2016-09-03 Case Studies for Integrating Science and the Global Environment is designed to help students of the

environment and natural resources make the connections between their training in science and math and today's complex environmental issues. The book provides an opportunity for students to apply important skills, knowledge, and analytical tools to understand, evaluate, and propose solutions to today's critical environmental issues. The heart of the book includes four major content areas: water resources, the atmosphere and air quality, ecosystem alteration, and global resources and human needs. Each of these sections features in-depth case studies covering a range of issues for each resource, offering rich opportunities to teach how various scientific disciplines help inform the issue at hand. Case studies provide readers with experience in interpreting real data sets and considering alternate explanations for trends shown by the data. This book helps prepare students for careers that require collaboration with stakeholders and co-workers from various disciplines. Includes global case studies using real data sets that allow readers to practice interpreting data and evaluating alternative explanations. Focuses on critical skills and knowledge, encouraging readers to apply science and math to real-world problems. Employs a system-based approach linking air, water, and land resources to help readers understand that cause-effect may be complex and solutions to environmental problems require multiple perspectives. Includes special features such as links to video clips of scientists at work, boxed information, a solutions section at the end of each case study, and practice exercises.

Technical Progress Report for the Quarter ... , Code of Federal Regulations, 2007. Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries. **Code of Federal Regulations, Title 40, Protection of Environment, Pt. 1-49, Revised as of July 1, 2009**, 2009-10-13.

Interpretation and Uses of Medical Statistics Leslie Daly, Geoffrey J. Bourke, 2008-04-30. In 1969 the first edition of this book introduced the concepts of statistics and their medical application to readers with no formal training in this area. While retaining this basic aim, the authors have expanded the coverage in each subsequent edition to keep pace with the increasing use and sophistication of statistics in medical research. This fifth edition has undergone major restructuring with some sections completely rewritten; it is now more logically organized and more user-friendly with the addition of summary boxes throughout the text. It incorporates new statistical techniques and approaches that have made an appearance since the last edition. In addition, some chapters or chapter headings are specifically marked to signify material that is more difficult than the material in which it is embedded; such sections or chapters can be omitted at first reading. Several new chapters have been added: Associations, Chance, Confounded, and Causal explains without any formulae the concepts underlying confounding, confidence intervals, and p-values and the interpretation of associations observed in research investigations. Another new chapter considers sample size calculations in some detail and provides, in addition to the relevant formulae, useful tables that should give the researcher an indication of the order of magnitude of the number of subjects he or she might require in different situations. *Radioactive Waste Management*, 1981. *Engineering and Finance*, 1929.

Discovering Statistics James S. Hawkes, 1993. **Software Management** Donald J. Reifer, 2006-08-30. This Seventh

Edition of Donald Reifer's popular bestselling tutorial summarizes what software project managers need to know to be successful on the job. The text provides pointers and approaches to deal with the issues, challenges, and experiences that shape their thoughts and performance. To accomplish its goals, the volume explores recent advances in dissimilar fields such as management theory, acquisition management, globalization, knowledge management, licensing, motivation theory, process improvement, organization dynamics, subcontract management, and technology transfer. *Software Management* provides software managers at all levels of the organization with the information they need to know to develop their software engineering management strategies for now and the future. The book provides insight into management tools and techniques that work in practice. It also provides sufficient instructional materials to serve as a text for a course in software management. This new edition achieves a balance between theory and practical experience. Reifer systematically addresses the skills, knowledge, and abilities that software managers at any level of experience need to have to practice their profession effectively. This book contains original articles by leaders in the software management field written specifically for this tutorial, as well as a collection of applicable reprints. About forty percent of the material in this edition has been produced specifically for the tutorial.

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Dr. Kenneth E. Nidiffer, Systems Software Consortium, Inc. The volume has evolved into a solid set of foundation works for anyone trying to practice software management in a world that is increasingly dependent on software release quality, timeliness, and productivity.

Walker Royce, Vice President, IBM Software Services Rational. [Digital Instrumentation and Control Systems in Nuclear Power Plants](#)

National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on Application of Digital Instrumentation and Control Systems to Nuclear Power Plant Operations and Safety, 1997-04-18. The nuclear industry and the U.S. Nuclear Regulatory Commission (USNRC) have been working for several years on the development of an adequate process to guide the replacement of aging analog monitoring and control instrumentation in nuclear power plants with modern digital instrumentation without introducing off-setting safety problems. This book identifies criteria for the USNRC's review and acceptance of digital applications in nuclear power plants. It focuses on eight areas: software quality assurance; common mode software failure potential; systems aspects of digital instrumentation and control technology; human factors and human machine interfaces; safety and reliability assessment methods; dedication of

commercial off the shelf hardware and software the case by case licensing process and the adequacy of technical infrastructure

Statistics for Engineering and the Sciences William M. Mendenhall, Terry L. Sincich, 2016-04-05

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