

The t Test for a Single Sample: Example

- Calculate the test statistic.

X	X^2
9.8	96.04
10.1	102.01
10.3	106.09
10.2	104.04
9.9	98.01
10.4	108.16
10.0	100.00
9.9	98.01
10.3	106.09
10.0	100.00
10.1	102.01
10.2	104.04
121.20	1224.87

$$\bar{X} = \frac{121.20}{12} = 10.1$$

$$s = \sqrt{\frac{n\sum X^2 - (\sum X)^2}{n(n-1)}}$$

$$s = \sqrt{\frac{(12)1224.87 - (121.20)^2}{12(11)}}$$

$$s = \sqrt{\frac{14698.44 - 14689.44}{132}}$$

$$s = \sqrt{\frac{9}{132}}$$

$$s = .26$$

$$s_{\bar{X}} = \frac{s}{\sqrt{n}} = \frac{.26}{\sqrt{12}} = .08$$

$$t = \frac{\bar{X} - \mu_{top}}{s_{\bar{X}}} = \frac{10.1 - 10.0}{.08} = 1.25$$

T Test Examples And Solutions

Sir Norman Lockyer



T Test Examples And Solutions:

Using Statistics in the Social and Health Sciences with SPSS and Excel Martin Lee Abbott, 2016-07-28 Provides a step by step approach to statistical procedures to analyze data and conduct research with detailed sections in each chapter explaining SPSS and Excel applications This book identifies connections between statistical applications and research design using cases examples and discussion of specific topics from the social and health sciences Researched and class tested to ensure an accessible presentation the book combines clear step by step explanations for both the novice and professional alike to understand the fundamental statistical practices for organizing analyzing and drawing conclusions from research data in their field The book begins with an introduction to descriptive and inferential statistics and then acquaints readers with important features of statistical applications SPSS and Excel that support statistical analysis and decision making Subsequent chapters treat the procedures commonly employed when working with data across various fields of social science research Individual chapters are devoted to specific statistical procedures each ending with lab application exercises that pose research questions examine the questions through their application in SPSS and Excel and conclude with a brief research report that outlines key findings drawn from the results Real world examples and data from social and health sciences research are used throughout the book allowing readers to reinforce their comprehension of the material Using Statistics in the Social and Health Sciences with SPSS and Excel includes Use of straightforward procedures and examples that help students focus on understanding of analysis and interpretation of findings Inclusion of a data lab section in each chapter that provides relevant clear examples Introduction to advanced statistical procedures in chapter sections e g regression diagnostics and separate chapters e g multiple linear regression for greater relevance to real world research needs Emphasizing applied statistical analyses this book can serve as the primary text in undergraduate and graduate university courses within departments of sociology psychology urban studies health sciences and public health as well as other related departments It will also be useful to statistics practitioners through extended sections using SPSS and Excel for analyzing data

Predictive Modeling of Human Microbiota and their Role in Health and Disease Hyun-Seob Song, Steve Lindemann, Dong-Yup Lee, 2022-01-19

Proceedings of the Twenty-second Annual Conference of the Cognitive Science Society Lila R. Gleitman, Aravind K. Joshi, 2000 Vol inclu all pprs postrs presntd at 2000 Cog Sci mtg summaries of symposia invitd addresses Dealg wth issues of representg modelg cog procsses appeals to scholars in all subdiscip tht comprise cog sci psy compu sci neuro sci ling philo

Statistics in 25 Pages Eugene Paul Lautenschlager, Valerie S. Harder, 2003

Solutions of the Cambridge Senate-House Problems and Riders for the Year 1875 Alfred George Greenhill, 1876

T. Macci Plauti Amphitruo Titus Maccius Plautus, 1890

Special lists. Mathematics Cornell university libr, 1883

The Indiana School Journal, 1873

Rules and examples in algebra. 2 pt. [and] Key Thomas Dalton, 1886

Interferometer Experiments in Acoustics and Gravitation Carl Barus, 1925

Introduction to

Business Statistics Alan H. Kvanli, Robert J. Pavur, Carl Stephen Guynes, 2000 As with earlier editions this text fully integrates the use of computers with statistics This edition has retained the non intimidating approach to describing the concepts and applications of statistics while giving students the opportunity to observe and actually carry out computer generated solutions using a statistics package like MINITAB or a spreadsheet package like Excel The text has also been designed so that those requiring a more traditional calculator based approach will find an abundance of exercises and examples that can be solved in that manner A CD ROM presenting data sets and special Excel macros that Robert Pavur Professor U of North Texas has created will be bound into the back of the book *The Publishers' Trade List Annual* ,1877

Publishers' Weekly ,1874 **Designing Smart Homes** Juan Carlos Augusto, 2006-06-29 The area of smart homes is fast developing as an emergent area which attracts the synergy of several areas of science This volume offers a collection of contributions addressing how artificial intelligence AI one of the core areas of computer science can bring the growing area of smart homes to a higher level of functionality where homes can truly realize the long standing dream of proactively helping their inhabitants in an intelligent way After an introductory section to describe a smart home scenario and to provide some basic terminology the following 9 sections turn special attention to a particular exemplar application scenario provision of healthcare and safety related services to increase the quality of life exploring the application of specific areas of AI to this scenario **Nature** Sir Norman Lockyer, 1891 **Fundamental Statistics for the Behavioral Sciences** David C. Howell, 1989 **Catalogue of the Educational Division of the South Kensington Museum** South Kensington Museum, 1876 **Moffatt's scholarship answers, by T.J. Livesey (T. Page).** Moffatt and Paige, 1879 The Library Bulletin of Cornell University ,1886 *Displacement Interferometry Applied to Acoustics and to Gravitation* Carl Barus, 1925

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