

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

W. Hackbusch



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

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Differential Equations organises workshops on subjects concerning the algorithmic treatment of partial differential equations. The topics are discretisation methods like the finite element and the boundary element method for various types of applications in structural and fluid mechanics. Particular attention is devoted to the advanced solution methods. The series of such workshops was continued in 1991 January 25-27 with the 7th Kiel Seminar on the special topic "Numerical techniques for boundary element methods at the Christian Albrechts University of Kiel". The seminar was attended by 57 scientists from 8 countries. The list of topics contained applications of the boundary element method BEM to various problems of practical interest also algorithmic aspects of the BEM coupling with finite element method, parallelisation, convergence analysis and in particular the treatment of the numerical integration. In six contributions the quadrature of weakly singular, Cauchy singular and hypersingular integrals is analysed. The editor thanks the DFG Schwerpunkt Randelementmethoden for its support. He also likes to express his gratitude to all persons involved in the organisation of the seminar.

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