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## Applied Statistics Exercises

With Solutions

**Problem 1:** A researcher collected the following data on customer satisfaction scores: 58.8, 64.1, 55.5, 69.6, 56.9, 63, 61.8, 58.9, 57.6, 57.7, 60.2, 52.4, 60.5, 63.1, 56.6, 52, 62.7, 53.7, 61.8, 58, 54.8, 61.2, 62.5. Calculate: a) The sample mean b) The sample standard deviation c) The median and quartiles d) Interpret the results in context

**Solution:**

Solution:

a) Sample mean ( $\bar{x}$ ):

$$\bar{x} = \Sigma x/n = 1363.4/23 = 59.28$$

b) Sample standard deviation (s):

$$s = \sqrt{[\Sigma(x - \bar{x})^2/(n-1)]} = 4.18$$

c) Median and quartiles:

Ordered data: 52, 52.4, 53.7, 54.8, 55.5, 56.6, 56.9, 57.6, 57.7, 58, 58.8, 58.9, 60.2, 60.5, 61.2, 61.8, 61.8, 62.5, 62.7, 63, 63.1, 64.1, 69.6

Median (Q2) = 58.9

Q1 = 56.6

Q3 = 62.5

d) Interpretation:

The average satisfaction score is 59.28, with moderate variability ( $s = 4.18$ ).

50% of scores fall between 56.6 and 62.5.

**Problem 2:** A company claims their average delivery time is 50 minutes. A sample of 64 deliveries shows a mean of 53.6 minutes with a standard deviation of 12.9 minutes. Test at  $\alpha = 0.05$  level:  $H_0: \mu = 50$   $H_a: \mu \neq 50$  a) Calculate the test statistic b) Find the critical value(s) c) Make a decision and state your conclusion

**Solution:**

Solution:

a) Test statistic:

$$t = (\bar{X} - \mu_0)/(s/\sqrt{n}) = (53.6 - 50)/(12.9/\sqrt{64})$$

# Statistics For Technology A Course In Applied Statistics

**Rachel S Tattersall**



## **Statistics For Technology A Course In Applied Statistics:**

**Statistics for Technology** Christopher Chatfield,1998

**Statistics for Technology** Christopher Chatfield,1970

**Statistics for Technology** Chris Chatfield,2017-09 One of the most popular introductory texts in its field **Statistics for Technology A Course in Applied Studies** presents the range of statistical methods commonly used in science social science and engineering The mathematics are simple and straightforward statistical concepts are explained carefully and real life rather than contrived examples are used throughout the chapters Divided into three parts the Introduction describes some simple methods of summarizing data Theory examines the basic concepts and theory of statistics Applications covers the planning and procedures of experiments quality control and life testing Revised throughout this Third Edition places a higher priority on the role of computers in analysis and many new references have been incorporated A new appendix describes general methods of tackling statistical problems including guidance on literature searching and report writing

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*Proceedings of the Section on Statistical Education* American Statistical Association. Section on Statistical Education,1996

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