

# Statistics Cheat Sheet

Mr. Roth, Mar 2004

## 1. Fundamentals

- a. Population – Everybody to be analysed
  - Parameter - # summarizing Pop
- b. Sample – Subset of Pop we collect data on
  - Statistics - # summarizing Sample
- c. Quantitative Variables – a number
  - Discrete – countable (# cars in family)
  - Continuous – Measurements – always # between
- d. Qualitative
  - Nominal – just a name
  - Ordinal – Order matters (low, mid, high)

### Choosing a Sample

- Sample Frame – list of pop we choose sample from
- Biased – sampling differs from pop characteristics.
- Volunteer Sample – any of below three types may end up as volunteer if people choose to respond.

### Sample Designs

- a. Judgement Samp: Choose what we think represents
  - Convenience Sample – easily accessed people
- t. Probability Samp: Elements selected by Prob
  - Simple random sample – every element = chance
  - Systematic sample – almost random but we choose by method
- g. Census – data on every everyone/thing in pop

### Stratified Sampling

Divide pop into subpop based upon characteristics

- h. Proportional: in proportion to total pop
- i. Stratified Random: select random within substrata
- j. Cluster: Selection within representative clusters

### Collect the Data

- k. Experiment: Control the environment
- i. Observation:

## 2. Single Variable Data - Distributions

- m. Graphing Categorical: Pie & bar chart)
- n. Histogram (classes, count within each class)
  - shape, center, spread. Symmetric, skewed right, skewed left
- p. Stemplots
 

0	11222	0	112233
1	011333	0	56677
2	etc	1	
- q. Mean:  $\bar{X} = \sum x_i / n$
- r. Median: M: if odd – center, if even - mean of 2

### s. Boxplot:



- t. Variance:  $s^2 = \sum (x - \bar{x})^2 / (n - 1) = SS_x / (n - 1)$
- u. p78: standard deviation,  $s = \sqrt{s^2}$
- v.  $SS_x = \sum (x - \bar{x})^2 = \sum x^2 - (\sum x)^2 / n$
- w. Density curve – relative proportion within classes – area under curve = 1
- x. Normal Distribution: 68, 95, 99.7 % within 1, 2, 3 std deviations.
- y. p98: z-score  $z = (x - \bar{x}) / s$  or  $(x - \mu) / \sigma$
- z. Standard Normal:  $N(0, 1)$  when  $N(\mu, \sigma)$

## 3. Bivariate - Scatterplots & Correlation

- a. Explanatory – independent variable
- b. Response – dependent variable
- c. Scatterplot: form, direction, strength, outliers
- d. – form is linear negative, ...
- e. – to add categorical use different color/symbol
- f. p147: Linear Correlation- direction & strength of linear relationship
- g. Pearson's Coeff:  $(-1 \leq r \leq 1)$  1 is perfectly linear + slope, -1 is perfectly linear – slope.
- h.  $r = \frac{1}{n-1} * \sum \frac{(x - \bar{x})}{s_x} \frac{(y - \bar{y})}{s_y} = \frac{SS_{xy}}{\sqrt{SS_x SS_y}}$
- i.  $r = z_x z_y / (n - 1)$
- j.  $SS_{xy} = \sum xy - \frac{\sum x \sum y}{n}$

## 4. Regression

- k. least squares – sum of squares of vertical error minimized
- l. p154:  $y = b_0 + b_1 x$ , or  $\hat{y} = a + b x$
- m. (same as  $y = mx + b$ )
- n.  $b_1 = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sum (x - \bar{x})^2} = \frac{SS_{xy}}{SS_x} = r (s_y / s_x)$
- o. Then solving knowing lines thru centroid  $((\bar{x}, \bar{y}); a = \bar{y} - b\bar{x})$
- p.  $b_0 = \frac{\sum y - (b_1 \sum x)}{n}$
- q.  $r^2$  is proportion of variation described by linear relationship
- r. residual =  $y - \hat{y}$  = observed – predicted.

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**Prabhu TL**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'Prabhu TL' text.

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*Statistics Workbook For Dummies* Deborah Rumsey, 2005-05-27 Presents an introduction to statistics providing information on analyzing and interpreting data knowing where to begin solving problems and more Provided by publisher

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This book is ideal for diploma undergraduate and postgraduate students from engineering and science fields to programming and software professionals It is also perfect for data science ML and AI engineers looking to expand their expertise in cutting edge technologies

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**Data Science** Prabhu TL,2025-04-12

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Commonwealth Education Beth Kreling,Peter R.C. Williams,2022-12-29 Education once regarded as a key pillar of Commonwealth activity is increasingly inconspicuous on Commonwealth agendas Written to mark the sixtieth anniversary of

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Basic Statistical Applications Patricia Ann Dempsey, Arthur D. Dempsey, 1992      **The Big Book of Flip Charts** Robert W. Lucas, 1999-09-16 Provides tips and techniques for creating and implementing flip charts into oral business presentations

**The Laserdisk Professional**, 1988      *Exploring Research* Neil J. Salkind, 2000 This text explores the use of electronic sources as a means to enhance research skills and includes discussions about scientific methods and the most common examples or research in the social and behavioural sciences      **College Student Journal**, 2000      Math for Soil Scientists Mark S. Coyne, James Allen Thompson, 2006 This unique resource is written for students and practitioners in the field of soil science who must learn or review basic mathematical operations faced when studying or working with soils Unlike other texts of its kind Math for Soil Scientists explains the importance of each concept explored discusses the theory behind each concept and presents the method for solving each problem Designed to cover all of the most common equations in the soil science field from calculating particle size distribution to conducting simple hypothesis testing this text provides the reader with many opportunities for practice in working out sample problems of each required math concept This easy to read text approaches every concept in a step by step fashion allowing the reader to fully understand how to find the solution to each sample problem      *Law & Reorder* Deborah Epstein Henry, 2010 This ground breaking and timely book will inspire you to effect changes in your own work methods and those of your employer It will provide you with the foundation insights and strategies you need to redesign the legal workplace re align the interests of lawyers clients and legal employers hone your individual skills as a lawyer and embrace a more hospitable productive and profitable environment      **Pennsylvania Township News**, 2002

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