

Index:

- Addition rule of probability 133
 Analysis of Variance (ANOVA) 419-424
 Assumptions of intervals
 Mean – One sample 272-273
 Means – Independent 313
 Means – Paired 294-295
 Proportions – One Sample 267
 Proportions – Two Samples 284
 Assumptions of tests
 ANOVA 419-420
 Correlation 346, 364, 371
 Goodness of Fit 411
 Independence 393
 Mean – One sample 272-273
 Means – Independent 313, 324-325
 Means – Paired 294-295
 Proportions – One Sample 267
 Proportions – Two Samples 284
 z-test 234
 Average 25, 75-81
 Bar Graph 25, 27-28
 Binomial Distribution
 Mean 181-183
 Probability 167-177
 Box and Whiskers Plot 108
 Central Limit Theorem 220-223
 Chebyshev's theorem 97
 Chi-square
 Distribution 395
 Goodness of Fit Test 411-416
 Independence Test 393-406
 Class Midpoint 38
 Class Width 37
 Coefficient of determination 367-368
 Complementary events 130
 Conditional probability 140, 144
 Confidence Interval 263-265
 Mean – One sample 272-273
 Means – Independent 314-315, 324
 Means – Paired 296
 Proportions – One Sample 267-268
 Proportions – Two Samples 285-286
 Confidence level 263-265
 Continuous data 4-5, 157, 187
 Correlation 19, 343, 363-368, 371-373, 378-388
 Critical Value 267-268, 272
 Cumulative frequency 45
 Degrees of freedom 93, 249
 ANOVA 420
 Chi-square test for independence 395
 Correlation 371
 Goodness of fit test 411
 t-test 251, 295, 314, 324
 t-interval 272, 296, 315, 324
 Deviation 90
 Discrete data 4-5, 157, 1887
 Distribution
 Binomial 167-177
 Chi Square 395
 Continuous 187
 Discrete 157-164
 F 325, 420
 Frequency 26, 37-38
 Normal 190-199, 203-214
 Probability 157-159
 Sampling 216-220
 Student's t 249-250
 Uniform 187-189
 Double Blind 16
 Error
 Type I and Type II 232-234
 Event 121
 Event space 121
 Expected Frequency 394, 400-401, 412-413
 Experimental Design 14-16
 Explanatory Variable 346
 Extrapolation 351

- Five-number Summary 107
- Frequency 25-26
- Frequency distribution 26, 37-38

- Histogram 41
- Hypothesis 230-231
- Hypothesis Test 229-240
 - ANOVA 419-424
 - Correlation 371-372
 - Goodness of Fit 411-416
 - Independence 393-406
 - Mean – One sample 250-251
 - Means – Independent 313-314, 324
 - Means – Paired 294-295
 - Proportions – One Sample 242-243
 - Proportions – Two Samples 283-285
 - z-test 234-235

- Independence 141-142
- Independent t-test 313-314, 324
- Independent t-interval 314-316
- Interpolation 351
- Interquartile range (IQR) 108
- Interval data 5-6, 84

- Least square line 345-.346
- Level of significance 233
- Linear regression 343-353

- Margin of Error 263
- Mean 75-81
- Measurement scale 5-6
- Median 75-81
- Mode 75-81
- Multiplication rule of probability 144

- Nominal data 5-6, 84
- Normal distribution 190-199, 203-214

- Observed frequency 393-394, 411
- Odds 135
- Ogive 46
- One-proportion interval 267-268

- One-proportion test 242-243
- One-sample t-interval 272-273
- One-sample t-test 250-251
- Ordinal data 5-6, 84
- Outcome 121

- p-value 232, 235, 243, 251, 272, 371, 395, 411, 420
- paired t-test 294-295
- paired t-interval 296
- Parameter 3-4
- Pareto chart 31-32
- Pearson correlation coefficient 363
- Percentile 107
- Pie Chart 29-31
- Point Estimator 263
- Pooled standard deviation 324-325
- Population
 - Mean 75
 - Standard deviation 93
 - Variance 93
- Probability
 - Addition rule 133
 - Complementary events 130
 - Conditional 140
 - Experimental 122
 - Multiplication rule 144
 - Properties 127
 - Theoretical 124-125
- Proportion test
 - One Sample 242-243
 - Two Samples 283-286

- Qualitative data 3-5
- Quantitative data 3-5
- Quartile 107

- Random Variable 157, 159
- Range 90
- Ratio data 5-6, 84
- Regression 343-353
- Relative frequency 25-26, 43
- Residual 344-346, 352, 374
- Response Variable 346

-
- Sample
 - Mean 75
 - Standard deviation 93
 - Variance 93
 - Sample space 121
 - Sampling techniques 8-11
 - Scatter Plot 61
 - Significance level 233
 - Skewed graph 50-51
 - Spread 90
 - Standard Deviation 91-93
 - Standard error of the estimate 373-374
 - Statistic 3-4
 - Stem-and-Leaf Plot 59
 - Student's t-distribution 249-250
 - Sum of squares 345, 364
-
- t-test
 - one-sample 250-251
 - paired 294-295
 - two-sample independent 313-314, 324
-
- Test
 - ANOVA 419-424
 - Correlation 371-372
 - Goodness of Fit 411-416
 - Independence 393-406
 - Mean – One sample 250-251
 - Means – Independent 314-315, 324
 - Means – Paired 294-295
 - Proportions – One Sample 242-243
 - Proportions – Two Samples 283-285
 - z-test 234-235
-
- Time-Series Plot 63
 - Two-sample t-test
 - Paired 294-295
 - Independent 314-315, 324
 - Type I error 232-234
 - Type II error 232-234
-
- Variable 1-5
 - Random 157, 159
 - Variance 93
-
- Weighted average 81-84
 - Z-score 193, 220

