

## **DEFINITIONS, IDEAS & TERMINOLOGY IN STATISTICS**

1. Statistics
2. Descriptive Statistics
3. Population
4. Sample
5. Variable
6. Observation
7. Data Set
8. Quantitative Variable
9. Discrete Variable
10. Continuous Variable
11. Continuous Variable
12. Qualitative Variable
13. Nominal
14. Ordinal
15. Summation Notation
16. Raw Data
17. Frequency Distribution
18. Relative Frequency
19. Bar Graph
20. Pie Chart
21. Class
22. Class Limits
23. Class Boundaries
24. Class width
25. Histograms
26. Symmetric Histogram
27. Bell-Shaped
28. Skewed Left
29. Skewed Right
30. Cumulative Frequency Distribution
31. Ogive
32. Stem-and-Leaf Display
33. Central Tendency
34. Mean
35. Median
36. Mode
37. Dispersion
38. Range
39. Variance
40. Standard Deviation
41. Grouped Data
42. Chebyshev's Theorem
43. Empirical Rule
44. Coefficient of Variation
45. z-Scores
46. Percentiles
47. Deciles
48. Quartiles
49. Box-and-Whisker Plot
50. Probability
51. Experiment
52. Outcomes
53. Sample Space
54. Tree Diagram
55. Events
56. Simple Events
57. Compound Events
58. Classical Probability
59. Relative Frequency Probability
60. Subjective Probability
61. Marginal Probability
62. Conditional Probability
63. Mutually Exclusive Events
64. Dependent Events
65. Independent Events
66. Complementary Events
67. Multiplication Rule
68. Addition Rule
69. Baye's Theorem
70. Permutations
71. Combinations
72. Factorials
73. Random Variable
74. Discrete Random Variable
75. Continuous Random Variable
76. Probability Distribution
77. Binomial Random Variable
78. Binomial Probability Distribution
79. Poisson Random Variable
80. Poisson Probability Distribution
81. Uniform Probability Distribution
82. Normal Probability Distribution

## **DEFINITIONS, IDEAS & TERMINOLOGY IN STATISTICS**

83. Standard Normal
84. Normal Approximation to Binomial Distribution
85. Exponential Probability Distribution
86. Simple Random Sampling
87. Sampling Distribution
88. Sampling Mean
89. Sampling Error
90. Central Limit Theorem
91. Sample Proportion
92. Estimation
93. Interval Estimation
94. Point Estimates
95. Confidence Interval
96. Maximum Error Estimate
97. t-Distribution
98. Sample Size Determination
99. Null Hypothesis
100. Alternative Hypothesis
101. Test Statistic
102. Critical Values
103. Rejection Region
104. Non-Rejection Region
105. Type I Errors
106. Type II Errors
107. Hypothesis Tests
108. Chi-Square Distribution
109. Goodness-of-fit Test Statistic
110. Independence Testing
111. F-Distribution
112. Analysis of Variance (ANOVA)
113. Degree of Freedom
114. Main Effects
115. Interactions
116. Regression
117. Correlation
118. Linear Regression
119. Least Squares Line
120. Non Parametric Statistics
121. Wilcoxin Signed-Rank Test
122. Wilcoxin Rank-Sum Test
123. Kruskal-Wallis Test
124. Rank Correlation