ELEMENTARY STATISTICS
PRE & POST TEST QUESTIONS

1. It is the science of collecting, organizing, analyzing and interpreting data in order to make decisions.

   a) Data
   b) Statistics
   c) Variable
   d) Population

2. What is data?
   a) Information coming from observations, counts, measurements or responses
   b) The science of collecting, organizing, analyzing, and interpreting data in order to make decisions
   c) A numerical description of a population characteristic.
   d) A numerical description of a sample characteristic.

3. Complete the definition:
   A _____ consists of all subjects (human or otherwise) that are being studied
   a) Statistics
   b) Number
   c) People
   d) Population

4. Complete the definition:
   A _____ is a subset of a population
   a) sample
   b) people
   c) statistics
   d) group

5. It is a numerical description of a population characteristic.
   a) Parameter
   b) People
   c) Statistics
   d) Data

6. It is a numerical description of a sample characteristic.
   a) Statistic
   b) Statistics
   c) Parameter
   d) Data

7. In 2006, major league baseball teams spent a total of $2,326,706,685 on players' salaries. Does this numerical value describe a population parameter or a sample statistic?

   a) As it refers to (all) MLB teams (population), this is a parameter.

   b) As it refers to (all) MLB teams (population), this is a statistic.
   c) As it refers to some MLB teams (sample), this is a parameter.
   d) As it refers to some MLB teams (sample), this is a statistic.

8. What is the symbol used for population mean?
   a) μ c) σ
   b) x d) s

9. What is the symbol used for population standard deviation?
   a) μ c) σ
   b) x d) s

10. What is the symbol used for population variance (i.e. standard deviation squared)?
   a) μ c) σ^2
   b) x d) σ

11. What is the symbol used for sample mean?
   a) μ c) σ
   b) x d) s

12. Which of the following is an example of a statistical question?
   a) What color shirt are you wearing?
   b) How many dogs do you have?
   c) What are the favorite ice cream flavors of CMS 6th graders?
   d) Is it a nice day outside?

13. What is the median of the following dataset?

112, 120, 107, 104, 109

   a) 107
   b) 112
   c) 120
   d) 104

14. What is the mode of the following dataset?

2.4, 2.2, 2.4, 2.7, 3.1, 2.6

   a) 2.2
   b) 2.4
   c) 2.6
   d) 3.1

15. What is the mode of the following dataset?
11, 13, 15, 13, 11, 13, 17
   a) 11
   b) 13

Basic Statistics Questions And Answers

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Basic Statistics Questions And Answers:

 Programmed Statistics (Question-Answers) B. L. Agarwal,2007 This Book Covers A Wide Range Of Topics In Statistics With Conceptual Analysis Mathematical Formulas And Adequate Details In Question Answer Form It Furnishes A Comprehensive Overview Of Statistics In A Lucid Manner The Book Provides Ready Made Material For All Inquisitive Minds To Help Them Prepare For Any Traditional Or Internal Grading System Examination Competitions Interviews Viva Voce And Applied Statistics Courses One Will Not Have To Run From Pillar To Post For Guidance In Statistics The Answers Are Self Explanatory For Objective Type Questions At Many Places The Answers Are Given With Proper Hints Fill In The Blanks Given In Each Chapter Will Enable The Readers To Revise Their Knowledge In A Short Span Of Time An Adequate Number Of Multiple Choice Questions Inculcate A Deep Understanding Of The Concepts The Book Also Provides A Good Number Of Numerical Problems Each Of Which Requires Fresh Thinking For Its Solution It Will Also Facilitate The Teachers To A Great Extent In Teaching A Large Number Of Courses As One Will Get A Plethora Of Matter At One Place About Any Topic In A Systematic And Logical Manner The Book Can Also Serve As An Exhaustive Text   **Basic Statistics with R** Stephen C. Loftus,2021-02-20 Basic Statistics with R Reaching Decisions with Data provides an understanding of the processes at work in using data for results Sections cover data collection and discuss exploratory analyses including visual graphs numerical summaries and relationships between variables basic probability and statistical inference including hypothesis testing and confidence intervals All topics are taught using real data drawn from various fields including economics biology political science and sports Using this wide variety of motivating examples allows students to directly connect and make statistics essential to their field of interest rather than seeing it as a separate and ancillary knowledge area In addition to introducing students to statistical topics using real data the book provides a gentle introduction to coding having the students use the statistical language and software R Students learn to load data calculate summary statistics create graphs and do statistical inference using R with either Windows or Macintosh machines Features real data to give students an engaging practice to connect with their areas of interest Evolves from basic problems that can be worked by hand to the elementary use of opensource R software Offers a direct clear approach highlighted by useful visuals and examples   Basic Statistics for Psychologists Marc Brysbaert,2019-10-05 Written by an experienced teacher of statistics the new edition of this accessible yet authoritative textbook covers all areas of undergraduate statistics and provides a firm foundation upon which students can build their own knowledge Featuring new chapters on Bayesian and multiple regression analysis this book gives students a working understanding of how to conduct reliable and methodical research using statistics Brysbaert illustrates the key concepts using examples from psychological research with clear formulas and explanations for calculations With helpful chapter by chapter guidance for carrying out tests using SPSS as well as coverage of jamovi and JASP software this book aims to develop students confidence in statistical analysis and to take the fear out of the topic It offers an easily navigable

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