BASIC STATISTICS FOR THE BEHAVIORAL SCIENCES

BASIC STATISTICS FOR THE BEHAVIORAL SCIENCES FORM THE FOUNDATION FOR UNDERSTANDING AND INTERPRETING DATA IN PSYCHOLOGY, SOCIOLOGY, AND RELATED FIELDS. THIS ESSENTIAL KNOWLEDGE ENABLES RESEARCHERS AND PRACTITIONERS TO ANALYZE HUMAN BEHAVIOR EFFECTIVELY, DRAW VALID CONCLUSIONS, AND MAKE INFORMED DECISIONS. IN THE BEHAVIORAL SCIENCES, STATISTICS HELP TO QUANTIFY PATTERNS, TEST HYPOTHESES, AND EVALUATE THE RELIABILITY OF FINDINGS. THIS ARTICLE PROVIDES A COMPREHENSIVE OVERVIEW OF FUNDAMENTAL STATISTICAL CONCEPTS, TECHNIQUES, AND APPLICATIONS RELEVANT TO BEHAVIORAL RESEARCH. TOPICS COVERED INCLUDE DESCRIPTIVE AND INFERENTIAL STATISTICS, MEASURES OF CENTRAL TENDENCY AND VARIABILITY, PROBABILITY THEORY, HYPOTHESIS TESTING, CORRELATION AND REGRESSION, AND ETHICAL CONSIDERATIONS. BY MASTERING THESE CORE PRINCIPLES, STUDENTS AND PROFESSIONALS CAN ENHANCE THEIR RESEARCH DESIGN AND DATA ANALYSIS SKILLS, ULTIMATELY ADVANCING THE STUDY OF BEHAVIOR. THE FOLLOWING SECTIONS OUTLINE THE KEY COMPONENTS OF BASIC STATISTICS FOR THE BEHAVIORAL SCIENCES IN DETAIL.

- DESCRIPTIVE STATISTICS IN BEHAVIORAL SCIENCES
- INFERENTIAL STATISTICS AND HYPOTHESIS TESTING
- MEASURES OF CENTRAL TENDENCY AND VARIABILITY
- CORRELATION AND REGRESSION ANALYSIS
- PROBABILITY AND SAMPLING DISTRIBUTIONS
- ETHICAL CONSIDERATIONS IN STATISTICAL ANALYSIS

DESCRIPTIVE STATISTICS IN BEHAVIORAL SCIENCES

DESCRIPTIVE STATISTICS PROVIDE THE TOOLS NECESSARY TO SUMMARIZE AND ORGANIZE DATA COLLECTED IN BEHAVIORAL RESEARCH. THEY ALLOW RESEARCHERS TO PRESENT LARGE AMOUNTS OF INFORMATION IN A CLEAR AND UNDERSTANDABLE MANNER, FACILITATING INTERPRETATION AND COMMUNICATION OF FINDINGS. COMMON DESCRIPTIVE STATISTICS INCLUDE FREQUENCIES, PERCENTAGES, MEANS, MEDIANS, MODES, AND MEASURES OF SPREAD SUCH AS RANGE AND STANDARD DEVIATION. THESE STATISTICS PAINT A PICTURE OF THE SAMPLE CHARACTERISTICS AND THE DISTRIBUTION OF VARIABLES UNDER STUDY.

FREQUENCY DISTRIBUTIONS AND DATA VISUALIZATION

Frequency distributions categorize data by tallying the number of occurrences of each value or range of values. This is particularly useful when analyzing categorical or ordinal data common in behavioral studies. Visual representations like histograms, bar charts, and pie charts complement frequency tables by illustrating patterns and trends in data, which can reveal insights about participant behaviors or responses.

MEASURES OF CENTRAL TENDENCY

MEASURES OF CENTRAL TENDENCY IDENTIFY THE CENTRAL POINT OF A DATASET, INDICATING WHERE MOST DATA VALUES CLUSTER. THE MEAN, MEDIAN, AND MODE ARE THE PRIMARY MEASURES USED IN BEHAVIORAL SCIENCE STATISTICS. THE MEAN REPRESENTS THE ARITHMETIC AVERAGE, THE MEDIAN IS THE MIDDLE VALUE IN AN ORDERED DATASET, AND THE MODE IS THE MOST FREQUENTLY OCCURRING VALUE. EACH MEASURE OFFERS A DIFFERENT PERSPECTIVE ON DATA CENTRALITY, AND SELECTION DEPENDS ON DATA TYPE AND DISTRIBUTION CHARACTERISTICS.

MEASURES OF VARIABILITY

VARIABILITY MEASURES DESCRIBE THE EXTENT TO WHICH DATA POINTS DIFFER FROM THE CENTRAL TENDENCY, REFLECTING THE DIVERSITY OR CONSISTENCY OF BEHAVIORAL DATA. KEY MEASURES INCLUDE THE RANGE, VARIANCE, AND STANDARD DEVIATION. THE RANGE IS THE DIFFERENCE BETWEEN THE MAXIMUM AND MINIMUM VALUES, WHILE VARIANCE AND STANDARD DEVIATION QUANTIFY AVERAGE DEVIATIONS FROM THE MEAN. UNDERSTANDING VARIABILITY IS CRUCIAL FOR INTERPRETING THE RELIABILITY AND GENERALIZABILITY OF BEHAVIORAL RESEARCH RESULTS.

INFERENTIAL STATISTICS AND HYPOTHESIS TESTING

Inferential statistics enable behavioral scientists to make predictions or generalizations about a population based on sample data. This branch of statistics involves hypothesis testing, estimation, and drawing conclusions with a specified level of confidence. It is essential for validating theories and models in behavioral research, allowing researchers to determine whether observed effects are statistically significant or likely due to chance.

FORMULATING HYPOTHESES

Hypothesis formulation is a critical initial step in inferential statistics. Researchers develop a null hypothesis (H0), which posits no effect or relationship, and an alternative hypothesis (H1), suggesting a significant effect or association. Behavioral scientists design studies to test these hypotheses using appropriate statistical tests, guiding the interpretation of research outcomes.

Types of Statistical Tests

VARIOUS STATISTICAL TESTS ARE EMPLOYED DEPENDING ON THE RESEARCH DESIGN, DATA TYPE, AND HYPOTHESES. COMMON TESTS IN BEHAVIORAL SCIENCES INCLUDE:

- T-TESTS (INDEPENDENT AND PAIRED) FOR COMPARING MEANS BETWEEN GROUPS
- ANALYSIS OF VARIANCE (ANOVA) FOR COMPARING MEANS ACROSS MULTIPLE GROUPS
- CHI-SQUARE TESTS FOR EXAMINING RELATIONSHIPS BETWEEN CATEGORICAL VARIABLES
- NON-PARAMETRIC TESTS FOR DATA THAT DO NOT MEET PARAMETRIC ASSUMPTIONS

EACH TEST HAS SPECIFIC ASSUMPTIONS AND CONDITIONS THAT MUST BE MET TO YIELD VALID RESULTS.

SIGNIFICANCE LEVELS AND P-VALUES

THE SIGNIFICANCE LEVEL (ALPHA) DEFINES THE THRESHOLD FOR REJECTING THE NULL HYPOTHESIS, COMMONLY SET AT 0.05. THE P-VALUE INDICATES THE PROBABILITY OF OBTAINING THE OBSERVED RESULTS, OR MORE EXTREME, ASSUMING THE NULL HYPOTHESIS IS TRUE. A P-VALUE LESS THAN ALPHA SUGGESTS THAT THE FINDINGS ARE STATISTICALLY SIGNIFICANT AND UNLIKELY TO BE DUE TO RANDOM VARIATION, REINFORCING THE CREDIBILITY OF BEHAVIORAL SCIENCE CONCLUSIONS.

MEASURES OF CENTRAL TENDENCY AND VARIABILITY

Understanding measures of central tendency and variability is fundamental for analyzing behavioral data accurately. These statistics summarize data distributions and inform researchers about the typical values and the extent of dispersion within datasets. Accurate computation and interpretation of these measures underpin

MEAN, MEDIAN, AND MODE: APPLICATIONS AND LIMITATIONS

The mean is sensitive to extreme values, making it less robust in skewed distributions common in behavioral data. The median provides a better central measure in such cases by dividing the dataset into two equal halves. The mode is particularly useful for nominal data where numeric averages are meaningless. Choosing the appropriate measure depends on data scale and research objectives.

RANGE, VARIANCE, AND STANDARD DEVIATION

THE RANGE OFFERS A QUICK SENSE OF DATA SPREAD BUT IS AFFECTED BY OUTLIERS. VARIANCE CALCULATES THE AVERAGE SQUARED DEVIATION FROM THE MEAN, PROVIDING A MORE PRECISE MEASURE OF SPREAD. STANDARD DEVIATION, THE SQUARE ROOT OF VARIANCE, EXPRESSES VARIABILITY IN THE SAME UNITS AS THE ORIGINAL DATA, FACILITATING EASIER INTERPRETATION. THESE MEASURES HELP BEHAVIORAL SCIENTISTS ASSESS CONSISTENCY AND VARIABILITY IN RESPONSES OR BEHAVIORS.

CORRELATION AND REGRESSION ANALYSIS

CORRELATION AND REGRESSION ARE STATISTICAL TECHNIQUES USED TO EXAMINE RELATIONSHIPS BETWEEN VARIABLES IN BEHAVIORAL SCIENCE RESEARCH. THEY HELP IDENTIFY PATTERNS, PREDICT OUTCOMES, AND UNDERSTAND THE STRENGTH AND DIRECTION OF ASSOCIATIONS AMONG BEHAVIORAL CONSTRUCTS.

UNDERSTANDING CORRELATION COEFFICIENTS

Correlation coefficients quantify the degree to which two variables are linearly related. The Pearson correlation coefficient (r) ranges from -1 to +1, indicating perfect negative to perfect positive linear relationships, respectively. A coefficient near zero suggests little or no linear association. Behavioral researchers use correlation analysis to explore links between psychological traits, behaviors, and environmental factors.

REGRESSION ANALYSIS FOR PREDICTION

REGRESSION ANALYSIS MODELS THE RELATIONSHIP BETWEEN ONE DEPENDENT VARIABLE AND ONE OR MORE INDEPENDENT VARIABLES. SIMPLE LINEAR REGRESSION INVOLVES A SINGLE PREDICTOR, WHILE MULTIPLE REGRESSION INCORPORATES SEVERAL PREDICTORS. THESE MODELS ALLOW BEHAVIORAL SCIENTISTS TO PREDICT OUTCOMES, CONTROL FOR CONFOUNDING VARIABLES, AND TEST THEORETICAL FRAMEWORKS. INTERPRETATION OF REGRESSION COEFFICIENTS AIDS IN UNDERSTANDING THE MAGNITUDE AND DIRECTION OF VARIABLE INFLUENCES.

PROBABILITY AND SAMPLING DISTRIBUTIONS

PROBABILITY THEORY UNDERLIES THE PRINCIPLES OF INFERENTIAL STATISTICS AND IS CRUCIAL FOR BEHAVIORAL SCIENCE RESEARCH. IT PROVIDES A FRAMEWORK FOR QUANTIFYING UNCERTAINTY AND MAKING INFORMED DECISIONS BASED ON SAMPLE DATA. SAMPLING DISTRIBUTIONS DESCRIBE THE BEHAVIOR OF SAMPLE STATISTICS AND ARE ESSENTIAL FOR HYPOTHESIS TESTING AND CONFIDENCE INTERVAL CONSTRUCTION.

FUNDAMENTALS OF PROBABILITY

PROBABILITY MEASURES THE LIKELIHOOD OF AN EVENT OCCURRING, RANGING FROM 0 (IMPOSSIBLE) TO 1 (CERTAIN).

BEHAVIORAL SCIENTISTS USE PROBABILITY TO ASSESS THE CHANCE THAT OBSERVED FINDINGS COULD HAVE ARISEN BY RANDOM VARIATION. UNDERSTANDING INDEPENDENT AND DEPENDENT EVENTS, AS WELL AS PROBABILITY RULES, IS KEY TO CORRECTLY INTERPRETING STATISTICAL RESULTS.

SAMPLING DISTRIBUTIONS AND THE CENTRAL LIMIT THEOREM

The sampling distribution of a statistic, such as the sample mean, represents the distribution of that statistic over many samples from the population. The Central Limit Theorem states that, given a sufficiently large sample size, the sampling distribution of the sample mean approaches a normal distribution regardless of the population's distribution. This principle justifies the use of parametric tests in behavioral research even when population distributions are unknown.

ETHICAL CONSIDERATIONS IN STATISTICAL ANALYSIS

ETHICAL CONDUCT IN STATISTICAL ANALYSIS IS FUNDAMENTAL TO THE INTEGRITY OF BEHAVIORAL SCIENCE RESEARCH.
RESEARCHERS MUST APPLY STATISTICAL METHODS RIGOROUSLY, REPORT FINDINGS HONESTLY, AND AVOID PRACTICES THAT
COULD MISLEAD OR DISTORT RESULTS. ADHERING TO ETHICAL STANDARDS PROTECTS PARTICIPANTS, MAINTAINS PUBLIC TRUST,
AND ADVANCES SCIENTIFIC KNOWLEDGE RESPONSIBLY.

DATA INTEGRITY AND TRANSPARENCY

Ensuring data accuracy and completeness is critical. Behavioral scientists should document data collection and analysis procedures thoroughly and avoid selective reporting or manipulation of data. Transparency in methodology and disclosure of limitations enhances reproducibility and credibility.

AVOIDING MISUSE OF STATISTICS

MISINTERPRETATION OR MISUSE OF STATISTICAL TECHNIQUES CAN LEAD TO ERRONEOUS CONCLUSIONS. RESEARCHERS SHOULD CHOOSE APPROPRIATE TESTS, VERIFY ASSUMPTIONS, AND INTERPRET RESULTS WITHIN THE CONTEXT OF THE STUDY DESIGN. ETHICAL ANALYSIS ALSO INVOLVES ACKNOWLEDGING UNCERTAINTY AND REFRAINING FROM OVERSTATING FINDINGS.

CONFIDENTIALITY AND RESPONSIBLE REPORTING

PROTECTING PARTICIPANT CONFIDENTIALITY IS PARAMOUNT WHEN HANDLING BEHAVIORAL DATA. ADDITIONALLY, RESULTS SHOULD BE COMMUNICATED CLEARLY AND RESPONSIBLY TO PREVENT MISAPPLICATION OR MISUNDERSTANDING BY OTHER RESEARCHERS, PRACTITIONERS, OR THE PUBLIC.

FREQUENTLY ASKED QUESTIONS

WHAT IS THE IMPORTANCE OF STATISTICS IN BEHAVIORAL SCIENCES?

STATISTICS IS ESSENTIAL IN BEHAVIORAL SCIENCES BECAUSE IT ALLOWS RESEARCHERS TO COLLECT, ANALYZE, AND INTERPRET DATA TO UNDERSTAND BEHAVIOR PATTERNS, TEST HYPOTHESES, AND MAKE INFORMED DECISIONS BASED ON EMPIRICAL EVIDENCE.

WHAT ARE DESCRIPTIVE STATISTICS AND HOW ARE THEY USED IN BEHAVIORAL

SCIENCES?

DESCRIPTIVE STATISTICS SUMMARIZE AND DESCRIBE THE MAIN FEATURES OF A DATASET, SUCH AS MEASURES OF CENTRAL TENDENCY (MEAN, MEDIAN, MODE) AND MEASURES OF VARIABILITY (RANGE, VARIANCE, STANDARD DEVIATION). IN BEHAVIORAL SCIENCES, THEY HELP SIMPLIFY COMPLEX DATA AND PROVIDE AN OVERVIEW OF PARTICIPANT RESPONSES OR BEHAVIORS.

WHAT IS THE DIFFERENCE BETWEEN POPULATION AND SAMPLE IN BEHAVIORAL RESEARCH?

A POPULATION INCLUDES ALL MEMBERS OF A SPECIFIED GROUP, WHILE A SAMPLE IS A SUBSET OF THE POPULATION SELECTED FOR STUDY. BEHAVIORAL RESEARCHERS USE SAMPLES TO MAKE INFERENCES ABOUT THE LARGER POPULATION BECAUSE STUDYING THE ENTIRE POPULATION IS OFTEN IMPRACTICAL.

HOW DO INFERENTIAL STATISTICS APPLY TO BEHAVIORAL SCIENCES?

INFERENTIAL STATISTICS ALLOW BEHAVIORAL SCIENTISTS TO MAKE PREDICTIONS OR GENERALIZATIONS ABOUT A POPULATION BASED ON SAMPLE DATA. TECHNIQUES LIKE HYPOTHESIS TESTING, CONFIDENCE INTERVALS, AND REGRESSION ANALYSIS HELP DETERMINE IF OBSERVED EFFECTS ARE STATISTICALLY SIGNIFICANT.

WHAT IS A P-VALUE AND WHY IS IT IMPORTANT IN BEHAVIORAL RESEARCH?

A p-value indicates the probability of obtaining the observed results assuming the null hypothesis is true. In behavioral research, it helps determine whether the findings are statistically significant; typically, a p-value less than 0.05 suggests strong evidence against the null hypothesis.

WHAT ROLE DO VARIABLES PLAY IN BEHAVIORAL STATISTICS?

VARIABLES ARE CHARACTERISTICS OR PROPERTIES THAT CAN VARY AMONG SUBJECTS, SUCH AS AGE, BEHAVIOR, OR TEST SCORES. Understanding independent, dependent, and confounding variables is crucial for designing experiments and analyzing data in behavioral sciences.

WHAT IS THE DIFFERENCE BETWEEN CORRELATION AND CAUSATION IN BEHAVIORAL STUDIES?

CORRELATION INDICATES A RELATIONSHIP OR ASSOCIATION BETWEEN TWO VARIABLES, WHEREAS CAUSATION IMPLIES THAT ONE VARIABLE DIRECTLY AFFECTS THE OTHER. BEHAVIORAL SCIENTISTS USE STATISTICAL METHODS TO IDENTIFY CORRELATIONS BUT MUST USE EXPERIMENTAL DESIGNS TO ESTABLISH CAUSATION.

HOW CAN RESEARCHERS ENSURE THE RELIABILITY AND VALIDITY OF THEIR STATISTICAL FINDINGS IN BEHAVIORAL SCIENCES?

RESEARCHERS ENSURE RELIABILITY BY USING CONSISTENT MEASUREMENT PROCEDURES AND VALIDITY BY USING ACCURATE MEASURES THAT TRULY REFLECT THE CONCEPT BEING STUDIED. PROPER STUDY DESIGN, ADEQUATE SAMPLE SIZE, AND APPROPRIATE STATISTICAL TESTS ALSO CONTRIBUTE TO TRUSTWORTHY FINDINGS.

WHAT ARE COMMON STATISTICAL TESTS USED IN BEHAVIORAL SCIENCES?

COMMON STATISTICAL TESTS INCLUDE T-TESTS (COMPARING MEANS BETWEEN TWO GROUPS), ANOVA (COMPARING MEANS AMONG THREE OR MORE GROUPS), CHI-SQUARE TESTS (EXAMINING RELATIONSHIPS BETWEEN CATEGORICAL VARIABLES), AND REGRESSION ANALYSIS (EXPLORING RELATIONSHIPS BETWEEN VARIABLES). THESE TESTS HELP ANALYZE DATA AND DRAW CONCLUSIONS IN BEHAVIORAL RESEARCH.

ADDITIONAL RESOURCES

1. STATISTICS FOR THE BEHAVIORAL SCIENCES

THIS COMPREHENSIVE TEXTBOOK INTRODUCES FUNDAMENTAL STATISTICAL CONCEPTS WITH A CLEAR FOCUS ON APPLICATIONS IN PSYCHOLOGY AND OTHER BEHAVIORAL SCIENCES. IT COVERS DESCRIPTIVE STATISTICS, PROBABILITY, HYPOTHESIS TESTING, AND INFERENTIAL STATISTICS WITH AN EMPHASIS ON REAL-WORLD EXAMPLES. THE BOOK IS KNOWN FOR ITS ACCESSIBLE LANGUAGE AND STEP-BY-STEP EXPLANATIONS, MAKING IT IDEAL FOR BEGINNERS.

2. DISCOVERING STATISTICS USING IBM SPSS STATISTICS

DESIGNED FOR STUDENTS IN THE BEHAVIORAL SCIENCES, THIS BOOK COMBINES STATISTICAL THEORY WITH PRACTICAL DATA ANALYSIS USING SPSS SOFTWARE. IT GUIDES READERS THROUGH KEY CONCEPTS SUCH AS T-TESTS, ANOVA, REGRESSION, AND NON-PARAMETRIC TESTS, WITH ENGAGING EXAMPLES AND HUMOR. THE BOOK HELPS LEARNERS BUILD CONFIDENCE IN BOTH UNDERSTANDING STATISTICS AND USING STATISTICAL SOFTWARE.

3. ESSENTIALS OF STATISTICS FOR THE BEHAVIORAL SCIENCES

THIS CONCISE TEXT FOCUSES ON THE CORE STATISTICAL METHODS MOST RELEVANT TO BEHAVIORAL SCIENCE RESEARCH. IT EMPHASIZES CONCEPTUAL UNDERSTANDING OVER COMPLEX MATHEMATICS, MAKING IT ACCESSIBLE FOR STUDENTS NEW TO STATISTICS. TOPICS INCLUDE MEASURES OF CENTRAL TENDENCY, VARIABILITY, CORRELATION, AND HYPOTHESIS TESTING, SUPPORTED BY PRACTICAL EXAMPLES.

4. Introduction to Statistics in Psychology

AIMED AT PSYCHOLOGY STUDENTS, THIS BOOK BREAKS DOWN STATISTICAL PRINCIPLES IN AN INTUITIVE MANNER. IT COVERS FOUNDATIONAL TOPICS SUCH AS PROBABILITY, SAMPLING DISTRIBUTIONS, AND INFERENTIAL TESTS, WITH AN EMPHASIS ON INTERPRETING RESULTS. THE TEXT INCLUDES EXERCISES AND EXAMPLES TAILORED TO PSYCHOLOGICAL RESEARCH CONTEXTS.

5. Behavioral Statistics: Understanding a Broad Range of Research Methods

THIS BOOK INTEGRATES STATISTICAL CONCEPTS WITH RESEARCH METHODOLOGY, HELPING STUDENTS UNDERSTAND HOW STATISTICS APPLY DIRECTLY TO STUDY DESIGN AND ANALYSIS IN BEHAVIORAL SCIENCES. IT COVERS DESCRIPTIVE AND INFERENTIAL STATISTICS WITH CLEAR EXPLANATIONS AND PRACTICAL DATA SETS. THE APPROACH ENCOURAGES CRITICAL THINKING ABOUT DATA INTERPRETATION.

6. APPLIED STATISTICS FOR THE BEHAVIORAL SCIENCES

FOCUSING ON PRACTICAL APPLICATION, THIS BOOK GUIDES READERS THROUGH THE USE OF STATISTICAL TECHNIQUES IN BEHAVIORAL RESEARCH. IT INCLUDES DETAILED INSTRUCTIONS ON CONDUCTING ANALYSES SUCH AS CHI-SQUARE TESTS, CORRELATION, AND MULTIPLE REGRESSION. THE TEXT BALANCES THEORY WITH HANDS-ON EXAMPLES, MAKING IT SUITABLE FOR APPLIED LEARNING.

7. BASIC STATISTICS: A PRIMER FOR THE BEHAVIORAL SCIENCES

THIS PRIMER OFFERS A STRAIGHTFORWARD INTRODUCTION TO STATISTICS, EMPHASIZING CLARITY AND SIMPLICITY. IT COVERS ESSENTIAL TOPICS LIKE DATA ORGANIZATION, GRAPHICAL REPRESENTATION, AND INFERENTIAL STATISTICS, TAILORED TO THE NEEDS OF BEHAVIORAL SCIENCE STUDENTS. THE BOOK INCLUDES NUMEROUS PRACTICE PROBLEMS TO REINFORCE LEARNING.

8. STATISTICS FOR PSYCHOLOGY

A WELL-REGARDED TEXT THAT PROVIDES A THOROUGH INTRODUCTION TO STATISTICS WITHIN THE CONTEXT OF PSYCHOLOGICAL RESEARCH. IT EXPLAINS KEY STATISTICAL CONCEPTS, INCLUDING PROBABILITY, SAMPLING, AND VARIOUS HYPOTHESIS TESTS, WITH AN EMPHASIS ON INTERPRETATION AND APPLICATION. THE BOOK FEATURES REAL DATA EXAMPLES TO ENHANCE UNDERSTANDING.

9. Understanding Statistics in the Behavioral Sciences

THIS BOOK DEMYSTIFIES STATISTICAL METHODS BY FOCUSING ON CONCEPTUAL UNDERSTANDING AND PRACTICAL APPLICATION IN BEHAVIORAL RESEARCH. IT COVERS DESCRIPTIVE STATISTICS, INFERENTIAL TESTS, AND DATA INTERPRETATION WITH CLEAR EXPLANATIONS AND EXAMPLES. THE TEXT IS DESIGNED TO BUILD STUDENT CONFIDENCE IN USING STATISTICS TO ANALYZE BEHAVIORAL DATA.

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