

# StatAnalyzer Pro

Advanced Statistical Analysis Platform

## Statistical Analysis Report

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## Executive Summary

Statistical analysis completed successfully. Comprehensive results are available in the detailed sections below.

# Data Overview

Total Observations: 131

Total Variables: 1

Numerical Variables: 1

Categorical Variables: 0

Missing Values: 0.00%

## Variable Types

Variable Name	Type	Count	Missing
Text	numerical	120	0

# Descriptive Statistics

Text (numerical)

Mean: 5.884	Median: 4.965	Std Dev: 3.131
Min: 1.000	Max: 20.000	Count: 120

## Statistical Tests

Test Statistic: 0.7793

p-value: 0.0100

Significant: No

Interpretation: undefined

### One-Sample T-Test

Test Statistic: 20.5851

p-value: 0.0000

Significant: Yes

Interpretation: Sample mean is significantly different from population mean

# Advanced Statistical Tests

## Normality Tests

Text:

Shapiro-Wilk Statistic: 0.7793  
p-value: 0.0100

Jarque-Bera Statistic: 551.7798  
Distribution: Non-Normal



# Quality Control Charts

## X-BAR Control Chart 1

Center Line (CL): 5.884

Upper Control Limit (UCL): 15.277

Lower Control Limit (LCL): -3.509

Out of Control Points: 5

Process Status: OUT OF CONTROL

Action Required: Investigate special causes

# AI-Powered Interpretation

## Key Findings

1. Data processing completed with full variable detection
2. Descriptive statistics calculated for all numeric variables
3. Statistical tests performed where applicable
4. Professional report generated with detailed methodology

## Statistical Significance

Statistical significance testing completed at ; Ò ã R ÆPvel. Review individual test results for detailed p-values and interpretations.

## Practical Implications

Results provide quantitative insights for data-driven decision making. Consider the practical significance alongside statistical significance when interpreting findings.

## Recommendations

1. Review descriptive statistics for data quality assessment
2. Examine correlation patterns for relationship insights
3. Consider additional domain-specific analysis if needed
4. Validate findings with appropriate subject matter expertise

# Methodology

Analysis performed using professional statistical methods equivalent to SPSS and R. Comprehensive data processing, variable detection, and statistical testing applied systematically.

## Standard Statistical Procedures:

- Data validation and cleaning performed automatically
- Variable type detection using advanced algorithms
- Outlier detection using IQR method
- Statistical significance tested at ; Ò ã R ÆPvel
- Correlation analysis using Pearson correlation coefficient
- Normality testing using Shapiro-Wilk test





