Caribbean Advanced Proficiency

Integrated Mathematics



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**Year:** 2022-2023

Table of Contents

[Title 3](#_Toc131347263)

[Introduction 4](#_Toc131347264)

[Methodology 6](#_Toc131347265)

[Presentation of Data 7](#_Toc131347266)

[Analysis of Data 12](#_Toc131347267)

[Discussion of Findings 13](#_Toc131347268)

# Title

The relationship between the mid-term and end of term results.

# Introduction

**Problem Statement:**

An assessment into the relationship between the Mid-term and End of Term Caribbean Studies' results of sixth form students during the period of 2022 to 2023 at Mona High School regarding their eligibility for CAPE.

**Purpose of Study:**

The Caribbean Advanced Proficiency Examination (CAPE) is an assessment typically done by students in lower and upper sixth form and serves for either tertiary education or a prerequisite entrance to colleges. Similar to the two-year program of the (Caribbean Secondary Education Certificate) CSEC, CAPE has some similarities. However, one of the main differences between these two exams is the mandatory subjects that sets them apart. The mandatory subjects for CSEC are English A and Mathematics, whereas CAPE only has two mandatory subjects. Communication Studies is compulsory and done in lower sixth and Caribbean Studies is mandatory and done in upper sixth. Both Mid-term and End-of-term results can be incorporated to judge whether or not the sixth form students are meeting the objectives set by the syllabus in preparation for their external exams.

Hence, the researchers seek to ascertain if there is a relationship between the Midterm and End of Term results for upper sixth form students to anticipate their level of success in CAPE exams. In addition, this research can be used by institutions to compare current and historical records of student results and determine whether there is any progress in overall grades over time.

**Objectives:**

1. To determine if students are ready for the upcoming CAPE Examinations for Caribbean Studies.

2. To determine if there was an improvement in the academic performance of students for Caribbean Studies’ Mid-Term to End of Term Examinations.

# Methodology

# Presentation of Data

Table 1: Representing the Caribbean Studies Mid-Term Results vs Caribbean Studies End of Term Results

|  |  |  |
| --- | --- | --- |
| **Student** | **Caribbean Studies Mid Term Results** | **Caribbean Studies End of Term Results** |
| 1 | 63 | 63 |
| 2 | 34 | 82 |
| 3 | 86 | 88 |
| 4 | 60 | 68 |
| 5 | 81 | 67 |
| 6 | 76 | 82 |
| 7 | 64 | 85 |
| 8 | 72 | 77 |
| 9 | 66 | 80 |
| 10 | 60 | 70 |
| 11 | 61 | 77 |
| 12 | 88 | 98 |
| 13 | 45 | 80 |
| 14 | 66 | 97 |
| 15 | 66 | 63 |
| 16 | 32 | 82 |
| 17 | 34 | 75 |
| 18 | 28 | 67 |
| 19 | 30 | 45 |
| 20 | 50 | 60 |
| 21 | 71 | 67 |
| 22 | 62 | 65 |
| 23 | 70 | 95 |
| 24 | 42 | 71 |
| 25 | 69 | 43 |
| 26 | 42 | 55 |
| 27 | 64 | 78 |
| 28 | 51 | 55 |
| 29 | 39 | 52 |
| 30 | 56 | 61 |

**Figure 2**: Box and Whisker plot showing comparison of Mid Term and End of Term Exam Results in Caribbean Studies

|  |
| --- |
| Min = Minimum |
| Q1 = Lower Quartile |
| Q2 = Median |
| Q3= Upper Quartile |
| Max = Maximum |

**Figure 3:** Stem and Leaf plot showing Caribbean Studies Mid Term Results

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Stem | Leaf |  |  |  |  |  |  |  |  |  |  |
| 2 | 8 |  |  |  |  |  |  |  |  |  |  |
| 3 | 0 | 2 | 4 | 4 | 9 |  |  |  |  |  |  |
| 4 | 2 | 2 | 5 |  |  |  |  |  |  |  |  |
| 5 | 0 | 1 | 6 |  |  |  |  |  |  |  |  |
| 6 | 0 | 0 | 1 | 2 | 3 | 4 | 4 | 6 | 6 | 6 | 9 |
| 7 | 0 | 1 | 2 | 6 |  |  |  |  |  |  |  |
| 8 | 1 | 6 | 8 |  |  |  |  |  |  |  |  |

|  |
| --- |
| KEY |
| 5|6 Means 56 |

**Figure 4:** Stem and Leaf plot showing Caribbean Studies End of Term Results

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Stem | Leaf |  |  |  |  |  |  |  |  |
| 4 | 3 | 5 |  |  |  |  |  |  |  |
| 5 | 2 | 5 | 5 |  |  |  |  |  |  |
| 6 | 0 | 1 | 3 | 3 | 5 | 7 | 7 | 7 | 8 |
| 7 | 0 | 1 | 5 | 7 | 7 | 8 |  |  |  |
| 8 | 0 | 0 | 2 | 2 | 2 | 5 | 8 |  |  |
| 9 | 5 | 7 | 8 |  |  |  |  |  |  |

|  |
| --- |
| KEY |
| 8|2 Means 82 |

# Analysis of Data

**Table 2:** Calculation of statistics for Mid Term Results (x) and End of Term Results (y) for Caribbean Studies

|  |  |
| --- | --- |
| **Statistics for Mid Term Results** | **Statistics for End of Term Results** |
| Mean | Mean |
| Median of x = 0.5 (n+1)th term  = 0.5(30+1)  =15.5th term  = 61.5% | Median of y = 0.5 (n+1)th term  = 0.5(30+1)  =15.5th term  = 70.5% |
| Lower Quartile (X)  Q1 = 0.25(n+1)th term  = 0.25 (30 + 1) = 7.75th term  Q1 = 42.75% | Lower Quartile (Y)  Q1 = 0.25(n+1)th term  = 0.25 (30 + 1) = 7.75th term  Q1 = 63% |
| Upper Quartile (X)  Q3 = 0.75(n+1)th term  = 0.75(30 + 1) = 23.25th term  Q3 = 68.25% | Upper Quartile (Y)  Q3 = 0.75(n+1)th term  = 0.75(30 + 1) = 23.25th term  Q3 = 81.5% |
| Interquartile Range (IQR)  Q3-Q1  = 68.25 42.75  = 25.5% | Interquartile Range (IQR)  Q3-Q1  = 81.5 63  = 18.5% |
| Range = Highest Value – Lowest Value  = 88-28  = 60% | Range = Highest Value – Lowest Value  = 98 43  = 55% |
| Standard Deviation | Standard Deviation |

# Discussion of Findings

# Conclusion

# Bibliography

# Appendices