

PAGE NAVIGATION FOR THE AI-POWERED FEEDBACK SYSTEM

Home Page

First, upload assessment data files.

Cohort Statistics

Analyses the whole cohort and categorises students into named groups based on their overall mark. Shows how each group performed across individual questions.

Student Statistics

Displays an individual student's performance on the assessment and compares it with the cohort average.

Question Analysis

Displays statistics, including standard deviation, for cohort performance on each question.

Teaching Summary

Provides actionable feedback notes for educators on overall cohort performance showing strongest and weakest topics, priority teaching areas, and the weakest-scoring questions. Also presents an overview of individual students' strongest and weakest topics, with cohort comparisons.

Feedback Generator

Generates editable feedback for students and a Feedback Management System to track whose feedback has been generated, edited, moderated, and downloaded.

Comparison Analysis

Presents graphs that compare last year's cohort performance with the current cohort's performance.

Data Sources

Provides access to the uploaded data files.

GENERATED COHORT SUMMARY FOR EDUCATORS

Cohort Teaching Summary

Cohort Overview

Total Students Analysed: 101
Cohort Average: 52.5%

Teaching Summary

Strongest Areas

- Square Number Calculation (56.8%)
- Square Root Calculation (56.5%)
- Modulo Operation Understanding (56.5%)

Areas Requiring Further Teaching

Question 13 (46.2%) - Subtraction After Square Root Calculation
Students struggled with calculating the square root of a number and then subtracting it from another number.
Teaching focus: Conduct a practical session on performing subtraction operations after calculating the square root of a number.

Question 2 (49.0%) - Basic Multiplication Operation

Students found it challenging to perform a simple multiplication operation.
Teaching focus: Reinforce understanding of basic multiplication operations through practical exercises.

Question 8 (49.8%) - Multiplication and Division Operations

Students struggled with performing multiplication and division operations in a single expression.
Teaching focus: Conduct a practical session on performing multiple operations, specifically multiplication and division, in a single expression.

GENERATED STUDENT SUMMARY FOR EDUCATORS

Student Performance Summary

Student: 43
Overall Result: 48.7%
Student Group: Resilient Risers

Areas Requiring Improvement

- Question 13 (10.0%) - Calculating the result of a subtraction operation involving a square root.
- Question 5 (20.0%) - Squaring a number.
- Question 6 (20.0%) - Computing the remainder of a division operation.

Areas of Strength

- Question 14 (100.0%) - Calculating the factorial of a number.
- Question 1 (80.0%) - Performing a simple subtraction operation.
- Question 4 (80.0%) - Finding the square root of a number.

Performance Summary

- The student needs to improve in performing arithmetic operations involving square roots, squaring numbers, and calculating remainders.
- The student demonstrates strength in performing simple arithmetic operations, calculating factorials, and finding square roots.
- The student is currently struggling with an overall score below 50%, which is also below the cohort average.

GENERATED STUDENT FEEDBACK FOR STUDENTS REVIEWED AND APPROVED FIRST BY EDUCATORS

Dear Sam,

Congratulations on your recent completion of the formative assessment, where you achieved a 50.0% mark. This shows that you have a good grasp of the basic concepts, and with some more practice and focus on certain areas, you can certainly improve your understanding and performance.

Overall Performance

Strengths:

- Your understanding of basic arithmetic operations is commendable, as evidenced by your correct answers to Questions 1, 2, and 3.
- You also demonstrated a good understanding of more complex mathematical concepts, such as square roots and absolute values, as shown in Questions 5 and 13.

Strengths in Questions

Areas for Improvement:

- You seem to have struggled with the concept of division by zero, as seen in Question 11. Remember, any number divided by zero is undefined in mathematics.
- Your understanding of factorials could also use some improvement, as indicated by your response to Question 15. Factorials are a fundamental concept in mathematics and computer science, and understanding them will be beneficial in your studies.

Improvements in Questions

I encourage you to continue practicing and reviewing these concepts. I am here to support you in your learning journey, so please do not hesitate to reach out if you need any assistance.

Note of Encouragement

Kind regards,

Miss Tandy Ortega

Recommended Learning Resources:

1. "Understanding Division by Zero" - This resource will help you understand why division by zero is undefined. [Link]
2. "Introduction to Factorials" - This resource provides a comprehensive introduction to factorials, which you seemed to struggle with in Question 15. [Link]
3. "Python Math Module" - This resource will help you understand how to use Python's math module to perform complex mathematical operations. [Link]

Further Reading

Practice Questions:

1. What is the result of 5 divided by 0?
 Answer: Undefined. Division by zero is not possible in mathematics.
2. What is the result of 4 factorial (4!)?
 Answer: 24. The factorial of a number is the product of all positive integers less than or equal to that number.

Practice Questions Relating to Necessary Improvements