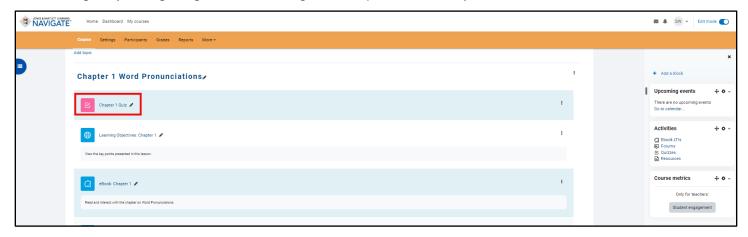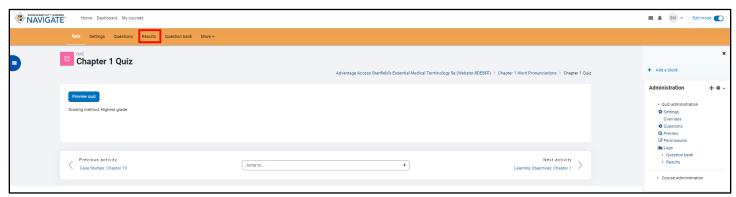# How to Review Test Item Analysis of Students' Quiz Results

This document contains instructions on how to view a statistical analysis of your students' assessment results online.

1. Begin by navigating to and clicking on the quiz for which you would like to review.

2. From the Quiz page, click **Results** from the menu at the top of the screen.

3. From the dropdown list, click Statistics.

4. The **Statistics calculation settings** allow you to specify which quiz attempts to include in your analysis.

5. The **Quiz information** section below reveals a summary of all scores achieved by the collective class so far. These statistics include such information as total number of graded first attempts, average grades, and student averages across the attempts. Click **Download** to download full report in various formats.

6. The **Quiz structure analysis** section displays a list of all questions attempted by your students for the quiz, along with pertinent data and analysis in a grid format.

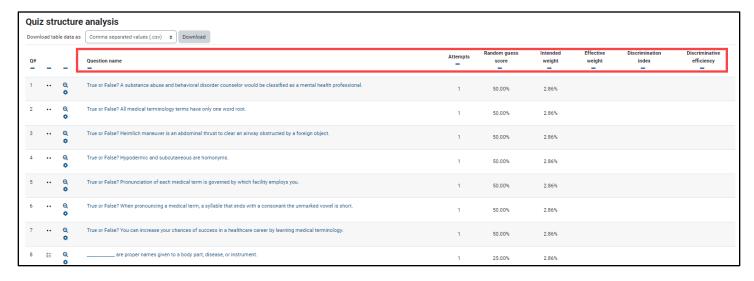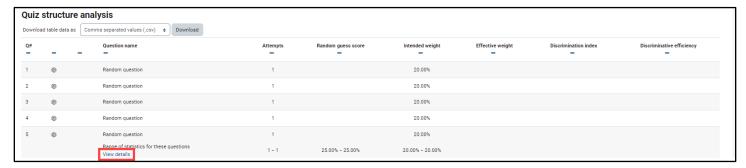   • Importantly, the **Question name** column lists the body of each question, the **Attempts** column shows the collective number of times your students submitted an answer for the question, and the **Facility Index** column reveals the percentage of the submitted answers which were correct.

Quiz structure analysis

Download table data as [Comma separated values (.csv) ⇕] [Download]

Q#			Question name	Attempts	Random guess score	Intended weight	Effective weight	Discrimination index	Discriminative efficiency
1	··	🔍 ⚙	True or False? A substance abuse and behavioral disorder counselor would be classified as a mental health professional.	1	50.00%	2.86%			
2	··	🔍 ⚙	True or False? All medical terminology terms have only one word root.	1	50.00%	2.86%			
3	··	🔍 ⚙	True or False? Heimlich maneuver is an abdominal thrust to clear an airway obstructed by a foreign object.	1	50.00%	2.86%			
4	··	🔍 ⚙	True or False? Hypodermic and subcutaneous are homonyms.	1	50.00%	2.86%			
5	··	🔍 ⚙	True or False? Pronunciation of each medical term is governed by which facility employs you.	1	50.00%	2.86%			
6	··	🔍 ⚙	True or False? When pronouncing a medical term, a syllable that ends with a consonant the unmarked vowel is short.	1	50.00%	2.86%			
7	··	🔍 ⚙	True or False? You can increase your chances of success in a healthcare career by learning medical terminology.	1	50.00%	2.86%			
8	☰	🔍 ⚙	_____ are proper names given to a body part, disease, or instrument.	1	25.00%	2.86%			

7. If you included randomly selected questions in the quiz, a placeholder for the randomly selected question is labeled as **Random question.** To view the details of those random questions, click **View details**.

Quiz structure analysis

Download table data as [Comma separated values (.csv) ⇕] [Download]

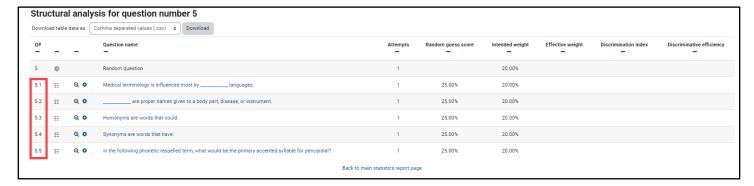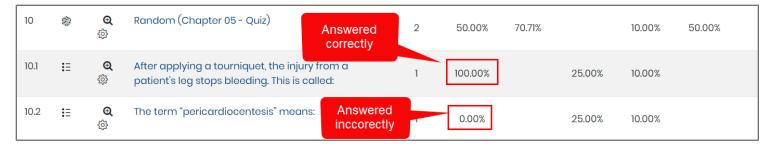| Q#			Question name	Attempts	Random guess score	Intended weight	Effective weight	Discrimination index	Discriminative efficiency
1	⚙		Random question	1		20.00%			
2	⚙		Random question	1		20.00%			
3	⚙		Random question	1		20.00%			
4	⚙		Random question	1		20.00%			
5	⚙		Random question	1		20.00%			
			Range of statistics for these questions View details	1 – 1	25.00% – 25.00%	20.00% – 20.00%			

8. Each unique randomly selected question which was attempted by a student is then listed below the random question placeholder with an iterative identifier under the **Q#** (question number) column, such as 2.1, 2.2, 2.3 etc., to indicate that it is a variation of this question.

Structural analysis for question number 5

Download table data as [Comma separated values (.csv) ▼] [Download]

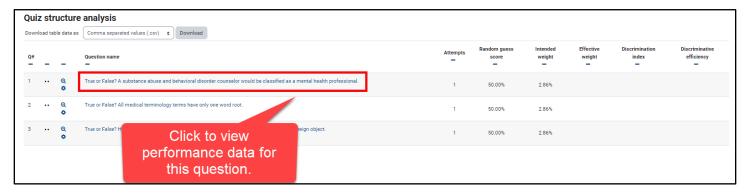| Q#			Question name	Attempts	Random guess score	Intended weight	Effective weight	Discrimination index	Discriminative efficiency
5	⚙		Random question	1		20.00%			
5.1	≔	🔍 ⚙	Medical terminology is influenced most by _____ languages.	1	25.00%	20.00%			
5.2	≔	🔍 ⚙	_____ are proper names given to a body part, disease, or instrument.	1	25.00%	20.00%			
5.3	≔	🔍 ⚙	Homonyms are words that could:	1	25.00%	20.00%			
5.4	≔	🔍 ⚙	Synonyms are words that have:	1	25.00%	20.00%			
5.5	≔	🔍 ⚙	In the following phonetic respelled term, what would be the primary accented syllable for pericardial?	1	25.00%	20.00%			

Back to main statistics report page.

9. The quiz in this example included one randomly selected question from the Chapter 5 – Quiz category. You can see from the report that two of the students attempted this question and that there were two unique questions which were answered. In this case, one student answered his/her question correctly, while the other student answered his/her question incorrectly.
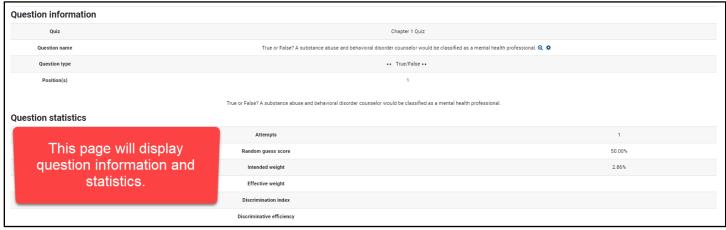
10	⚙	🔍 ⚙	Random (Chapter 05 – Quiz)		2	50.00%	70.71%		10.00%	50.00%
10.1	≔	🔍 ⚙	After applying a tourniquet, the injury from a patient's leg stops bleeding. This is called:	**Answered correctly**	1	100.00%		25.00%	10.00%	
10.2	≔	🔍 ⚙	The term "pericardiocentesis" means:	**Answered inccorectly**	1	0.00%		25.00%	10.00%	

10. You may click on any individual question for additional class performance data for the specific item. The **Question information** section displays the question content, followed by the **Question statistics** section, which reveals the same calculations displayed for the question in the table shown on the Quiz statistics page.
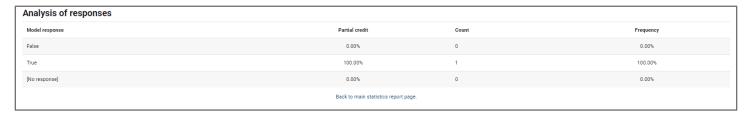
Quiz structure analysis

Download table data as [Comma separated values (.csv) ▼] [Download]

Q#				Question name	Attempts	Random guess score	Intended weight	Effective weight	Discrimination index	Discriminative efficiency
1	••	🔍 ⚙		True or False? A substance abuse and behavioral disorder counselor would be classified as a mental health professional.	1	50.00%	2.86%			
2	••	🔍 ⚙		True or False? All medical terminology terms have only one word root.	1	50.00%	2.86%			
3	••	🔍 ⚙		True or False? H... ...reign object.	1	50.00%	2.86%			

Click to view performance data for this question.

Question information

Quiz	Chapter 1 Quiz
Question name	True or False? A substance abuse and behavioral disorder counselor would be classified as a mental health professional. 🔍 ⚙
Question type	•• True/False ••
Position(s)	1

True or False? A substance abuse and behavioral disorder counselor would be classified as a mental health professional.

Question statistics

This page will display question information and statistics.

Attempts	1
Random guess score	50.00%
Intended weight	2.86%
Effective weight	
Discrimination index	
Discriminative efficiency	

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11. In the **Analysis of responses** section, you will see data showing the count and frequency of the different responses that were submitted for this question.

- The **Model response** column lists the available answer choices for the question. The adjacent **Partial credit** column reveals the credit given to the student based on any chosen answer.
- Under the **Count** column, you will see the number of times each unique answer choice was submitted, while the **Frequency** column lists the percent of respondents in the class who selected each answer choice.

Analysis of responses

Model response	Partial credit	Count	Frequency
False	0.00%	0	0.00%
True	100.00%	1	100.00%
[No response]	0.00%	0	0.00%
	Back to main statistics report page.		

12. Click the **Back to main statistics report page** link at the bottom of this page to return to the general quiz statistics and continue your analysis.

Analysis of responses

Model response	Partial credit	Count	Frequency
False	0.00%	0	0.00%
True	100.00%	1	100.00%
[No response]	0.00%	0	0.00%
	Back to main statistics report page.		

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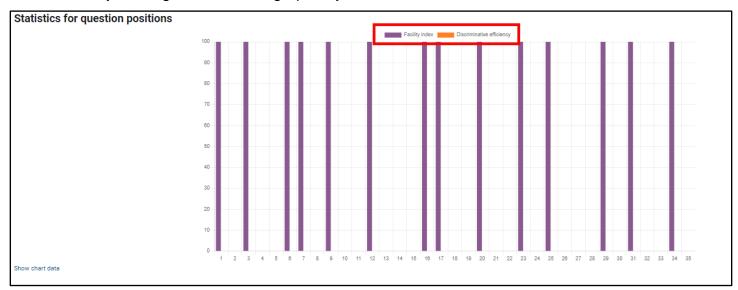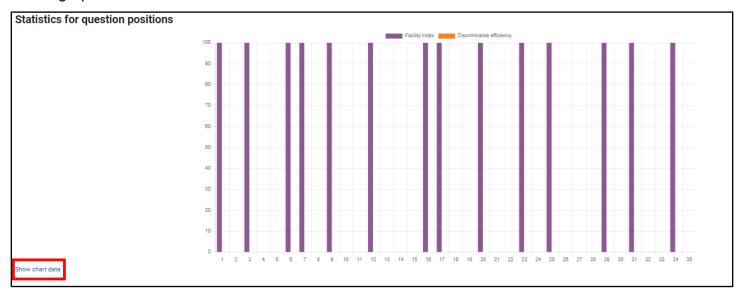PUBLIC SAFETY GROUP *A DIVISION OF JONES & BARTLETT LEARNING*

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13. The graphical chart at the bottom of the **Quiz statistics** page reveals the **Facility Index** and **Discriminative Efficiency** for each question. Each statistic may be hidden or revealed in the chart by clicking on it from the graph key.

14. Click the **Show chart data** link below the graph to reveal the same statistics shown in the graph in a numerical format below.

15. When finished, use the **Navigation path** at the top of the page to retrace your steps back to the quiz page or to return to the main course page.

Click to return to the quiz page.

Click to reutn to the main course page.