[Book] Student Performance Report

QPT 1 - 11 May 2025

For: Student

Generated by MathonGo AI

1. Summary Statistics

[Note] Total Questions: 75

[Check] Correct Answers: 12

[Target] Accuracy: 16.00%

[Timer] Average Time per Question: 51.40s

[Chart] Marks Scored: 48.0/300

[Timer] Time Used: 107.08% of 3600s

2. Personalized Feedback

Hi Student,

I appreciate your effort in QPT 1. While the overall score isn't where we'd like it to be, your performance in Sets and Relations (42.86% accuracy) shows you have a strong grasp of some core mathematical concepts. This is a great foundation to build upon! Let's work together to improve your understanding in areas like Electrochemistry and Solutions where you faced challenges. Remember, consistent effort and focused practice are key to success. I'm confident that with targeted strategies, you can significantly improve your scores in the next QPT.

3. Performance Analysis

Subject-wise Analysis

Your strongest subject was Physics (71.43% accuracy) but you spent a significant portion of your time (2957 seconds) on it. Chemistry presented some challenges (50.00% accuracy), and you spent considerably less time (887 seconds). Notably, you didn't attempt any Mathematics questions, spending only 11 seconds on this section.

Chapter-wise Analysis

Within Physics, you excelled in Capacitance (10.00% accuracy) and struggled with Electrostatics (6.67% accuracy). In Chemistry, your performance was hindered by extremely low accuracy in both Electrochemistry (0.00%) and Solutions (0.00%), despite spending significantly more time on Chemistry than on mathematics. In Mathematics, your strongest chapter was Sets and Relations (42.86% accuracy, 100.14s average time) and your weakest was Functions (38.89% accuracy, 125.33s average time). It's important to address the near-zero average time spent on Electrochemistry and Solutions, indicating a potential issue with attempting these questions.

Difficulty-wise Analysis

Your accuracy on medium difficulty questions was 10.00%. Data on easy and hard questions are not provided, making a complete difficulty analysis impossible.

Time vs. Accuracy

Your average time per question was 51.40 seconds, and you used 107.08% of the allotted time. Your accuracy on slow questions (47.37%) suggests that taking more time doesn't necessarily translate to higher accuracy. This might indicate a need to review your problem-solving strategies.

Overall Metrics

You scored 48/300 (16.00% accuracy) and used 107.08% of the allocated time (3600 seconds + some extra time).

Subject-wise Performance

Subject	Correct	Attempted	Accuracy (%)	Time (s)
Physics	10	14	71.43	2957
Chemistry	2	4	50.00	887
Mathematics	0	0	0.00	11

4. Actionable Suggestions

Physics

* Review the fundamental concepts of Electrostatics, focusing on areas where your accuracy was lowest (6.67%). Redo the Electrostatics questions from QPT 1, analyzing your mistakes and identifying areas for improvement.

* Practice different types of Capacitance problems, even though your accuracy is low, to strengthen your understanding and improve your speed (38.30s average time).

* Dedicate specific practice sessions for Physics, aiming to optimize your time management without compromising accuracy. Explore different problem-solving techniques to improve efficiency.

* Consult your textbook or other learning resources to solidify your understanding of key concepts in both Capacitance and Electrostatics.

* Attempt timed practice tests that mimic the QPT format to improve your speed and accuracy under pressure.

Chemistry

* Given the 0.00% accuracy and extremely low average time spent on both Electrochemistry and Solutions, prioritize revisiting the fundamental concepts of these chapters. Ensure you understand the basic principles before attempting practice questions.

* Work through example problems in your textbook and online resources, focusing on the step-by-step process involved in solving Electrochemistry and Solutions problems.

* Seek clarification from your teacher or a tutor on any concepts you find challenging in Electrochemistry and Solutions. This focused approach will help you build a solid understanding.

* Attempt basic level practice questions in Electrochemistry and Solutions to build confidence and improve your accuracy from the current 0.00%.

* Once you have grasped the fundamentals, gradually increase the difficulty level of the practice problems.

Mathematics

* Practice Functions problems to improve your 38.89% accuracy. Focus on identifying your areas of weakness within Functions and work through targeted exercises.

* Review the concepts where you faced challenges in Sets and Relations, even though your accuracy is relatively higher (42.86%). This will reinforce your understanding and help maintain your strengths.

* Attempt a variety of practice questions in both Functions and Sets and Relations, focusing on applying the concepts you have learned.

* Allocate specific study time for Mathematics to ensure you adequately cover all topics and attempt questions in future QPTs.

* Analyze the solutions to the Functions problems from QPT 1 to identify patterns in your errors and adjust your problem-solving strategies accordingly.

5. Chapter-wise Analysis

Performance by Chapter

Subject	Chapter	Questions	Accuracy (%)	Avg Time (s)
Unknown	Sets and Relations	7	42.86	100.14
Unknown	Functions	18	38.89	125.33
Unknown	Capacitance	10	10.00	38.30
Unknown	Electrostatics	15	6.67	33.60
Unknown	Electrochemistry	13	0.00	0.15
Unknown	Solutions	12	0.00	0.75

6. Visual Insights

Distribution of Time Taken per Question
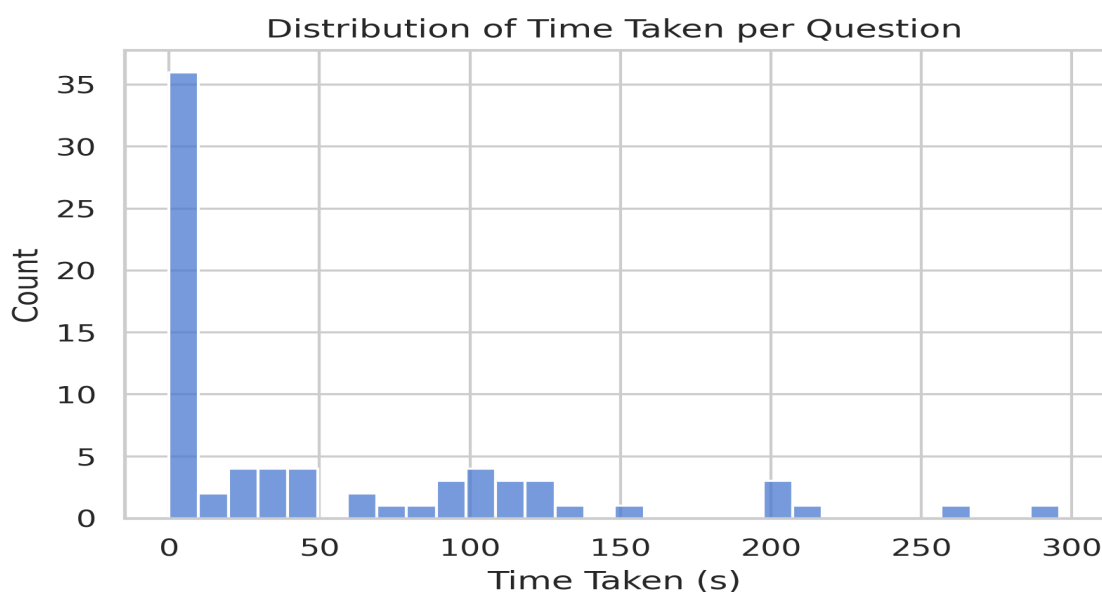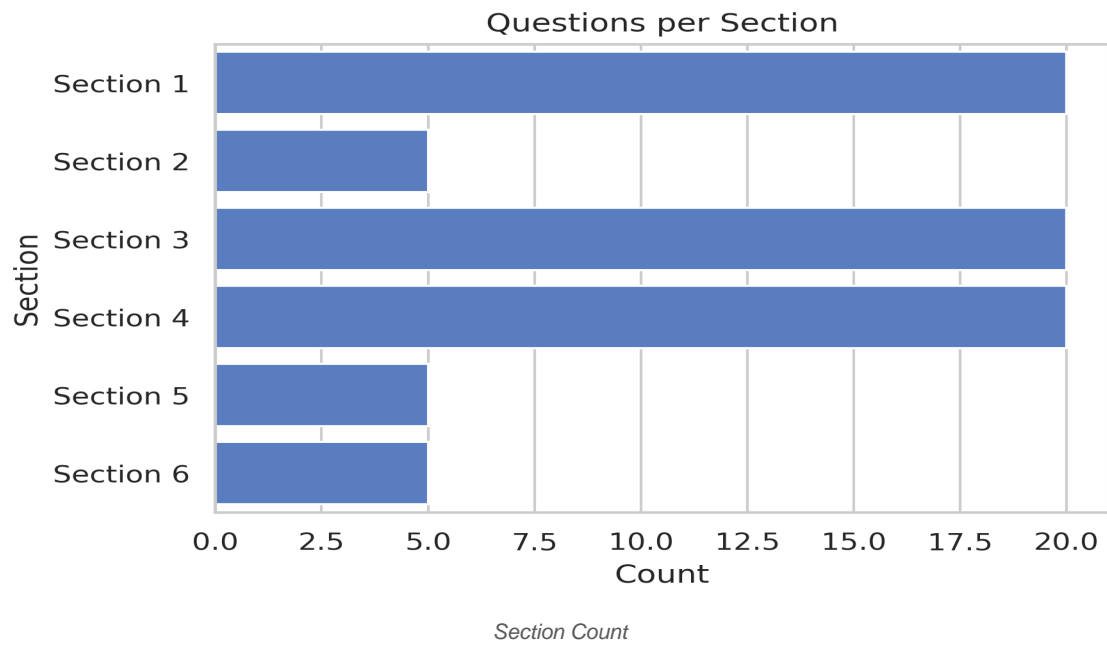
Time Taken Histogram

This graph shows how long you spent on each question, with taller bars for longer times. It helps you spot which questions slowed

you down so you can practice going faster.

Questions per Section

Section Count

This chart counts how many questions were in each test section. It shows which sections had more questions, helping you focus your study.

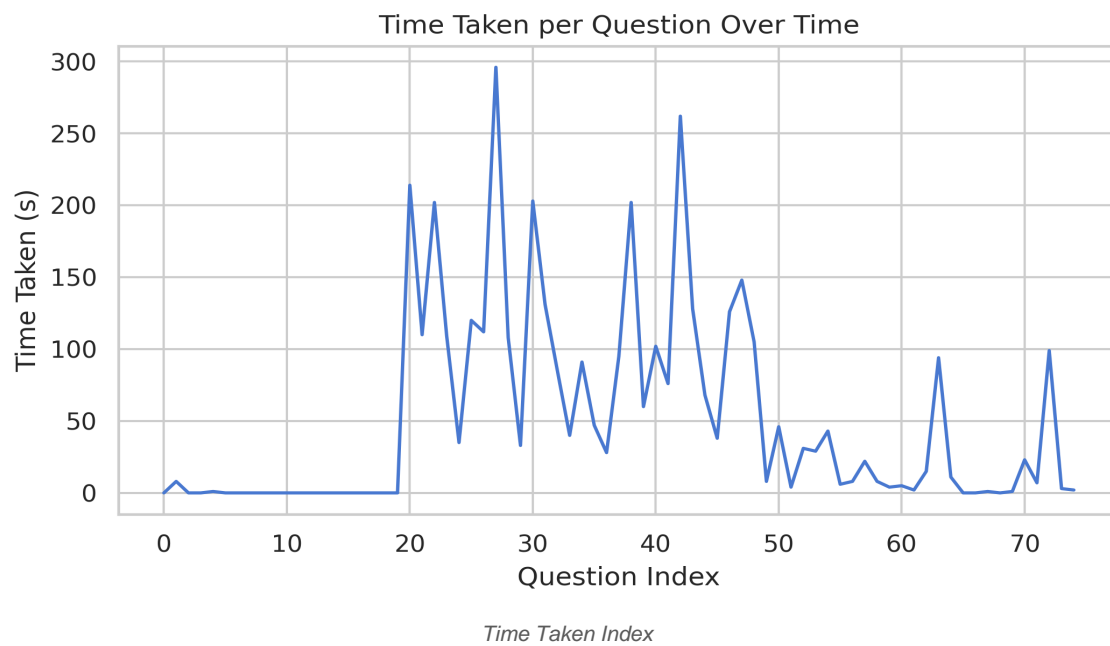## Questions per Chapter
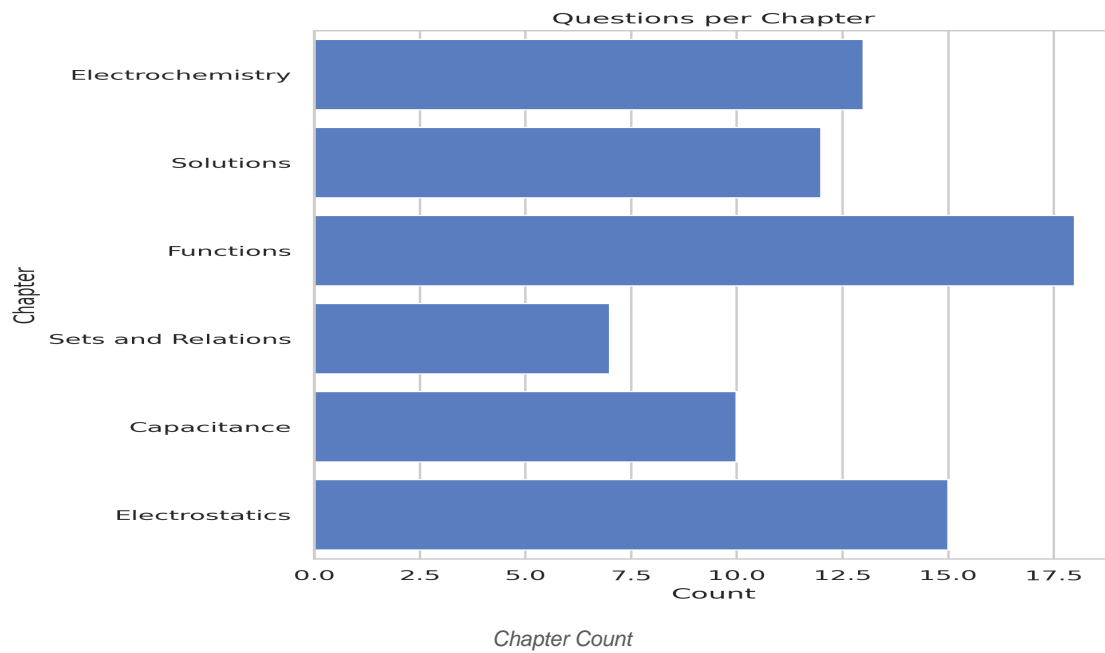
Chapter Count

This graph shows how many questions came from each chapter. It helps you know which chapters need more study if they had lots of questions.

Questions per Difficulty Level

Level Count
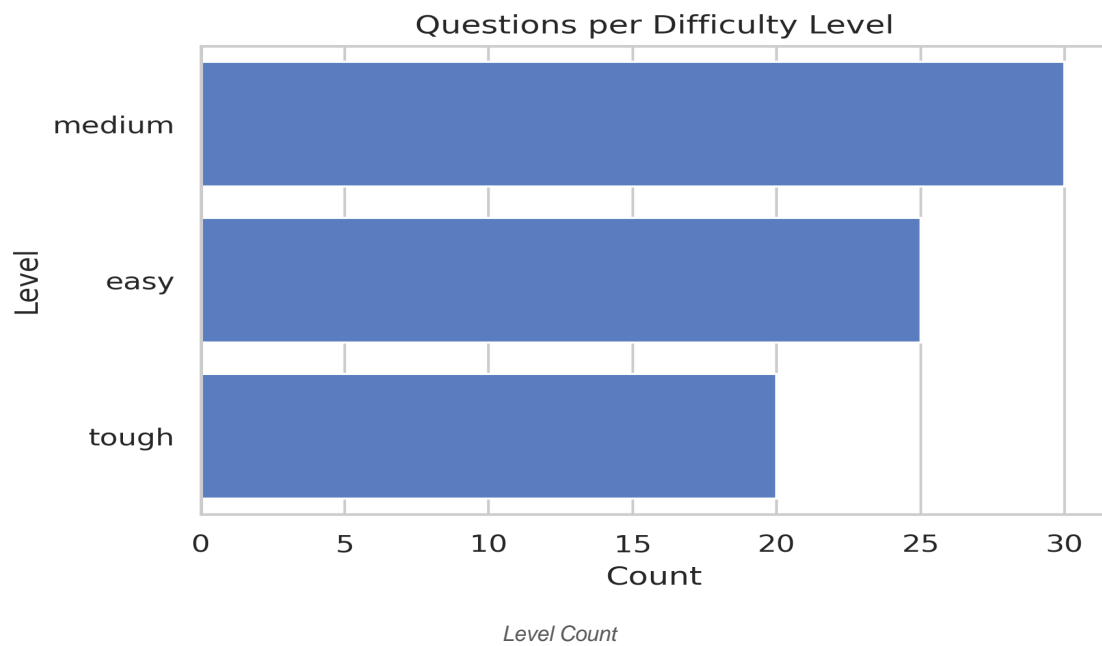
This chart counts easy, medium, and hard questions. It shows which difficulty levels you faced most, so you can practice the tough ones.

Questions per Answer Status

Status Count
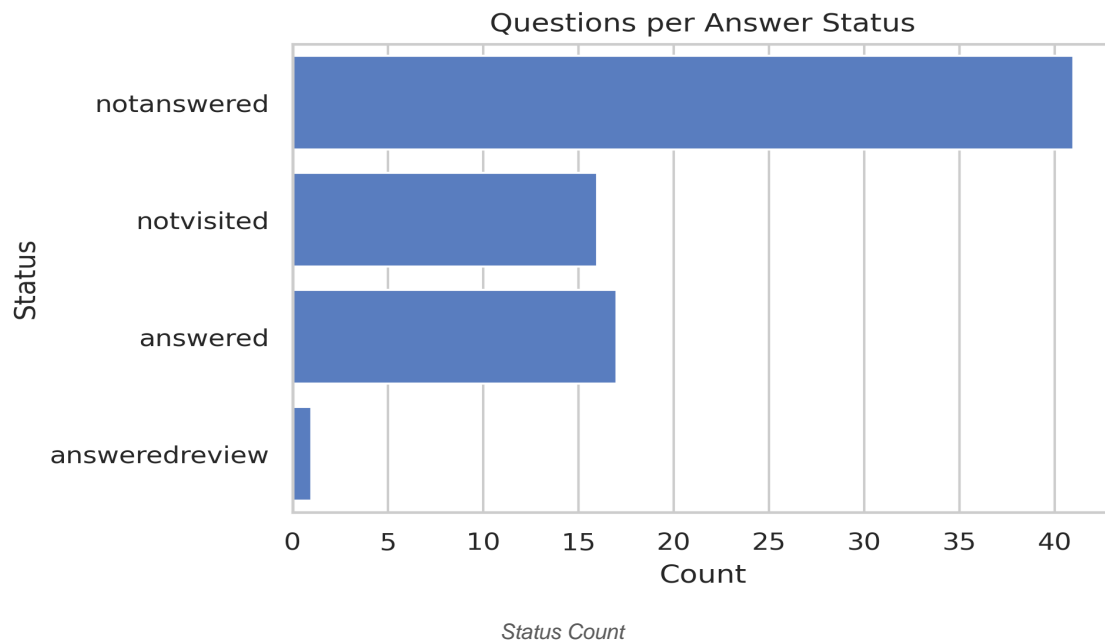
This graph shows how many questions you got right, wrong, or skipped. Lots of skipped questions mean you might need to manage time better.

Time Taken per Question Over Time

Time Taken Index

This line shows how long each question took as you went through the test. If the line goes up, later questions took longer, suggesting tiredness or difficulty.
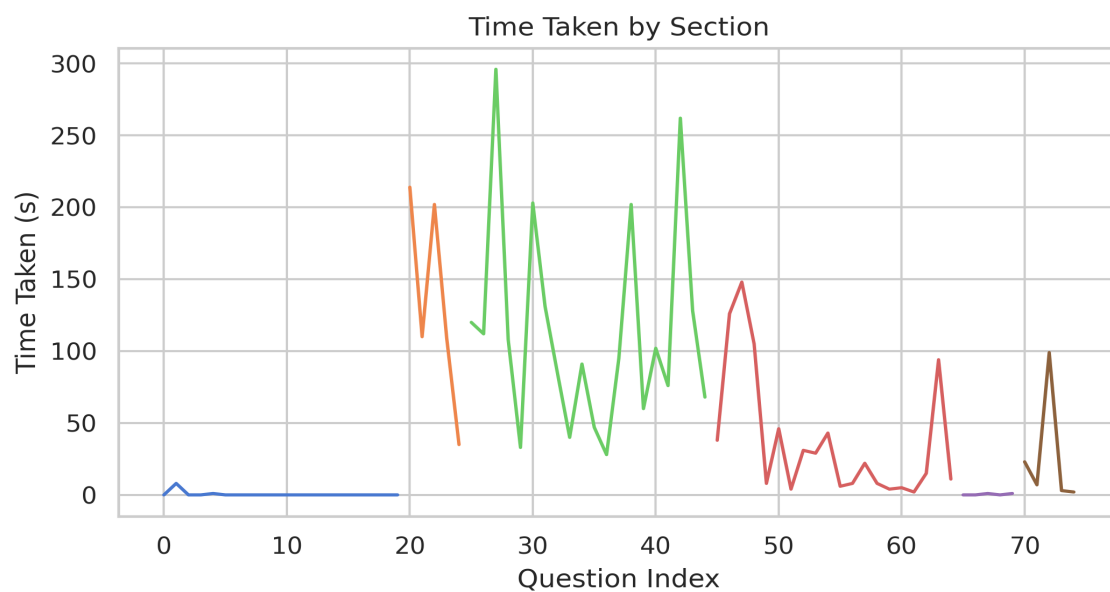
Time Taken by Chapter
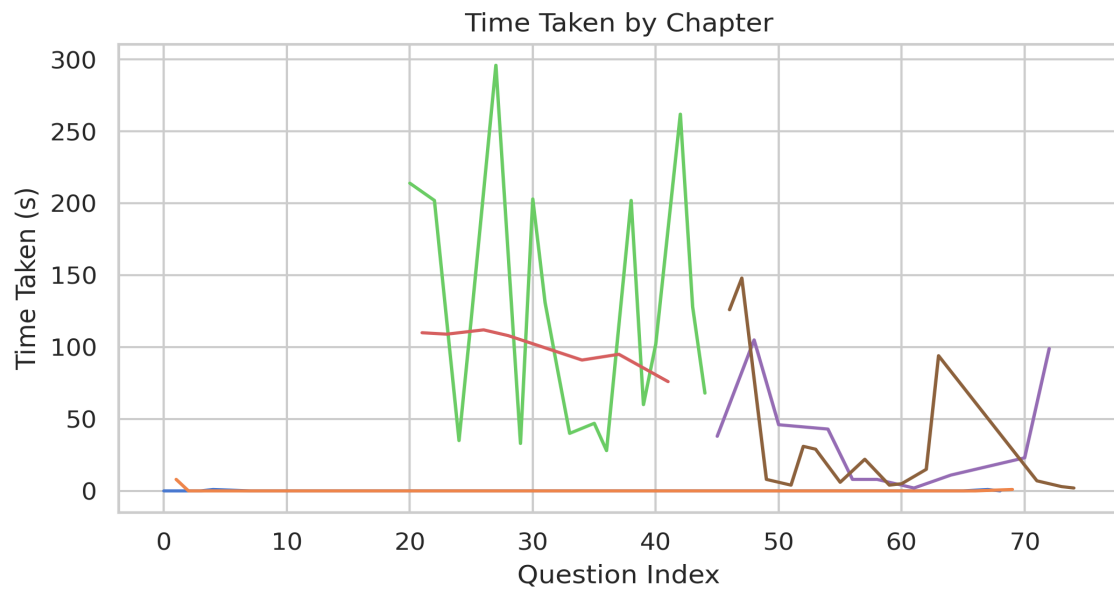
Time Taken Chapter

This graph shows time spent on questions from each chapter. High lines mean those chapters took longer, so practice them to get faster.

Time Taken by Difficulty Level
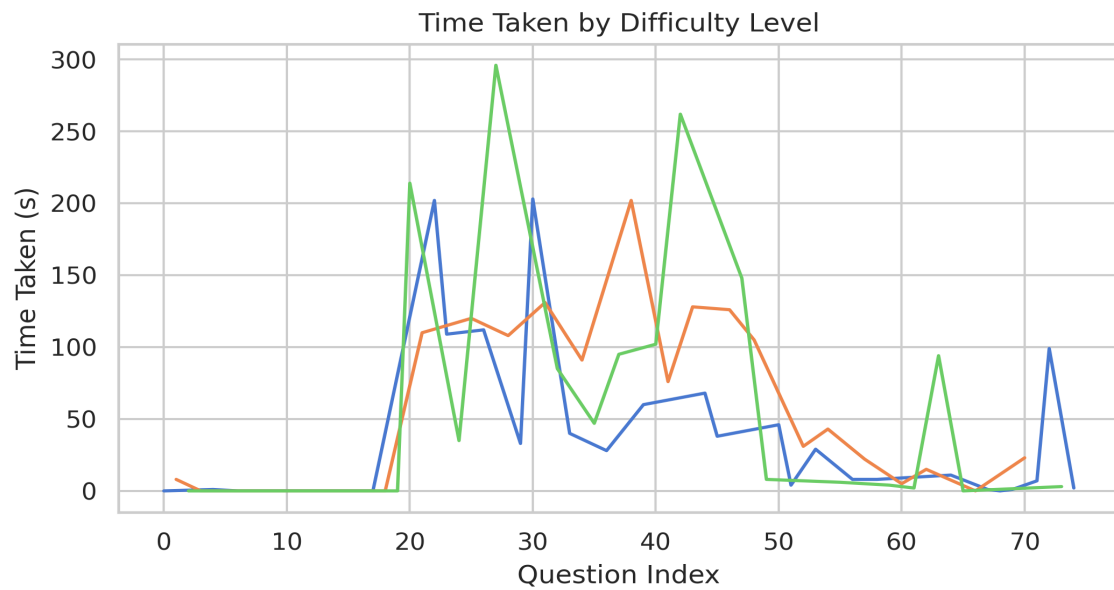
Time Taken Level

This graph shows time spent on easy, medium, and hard questions. If hard questions have high lines, practice them to speed up.

Time Taken by Section

Time Taken Section

This graph shows time spent on each test section. High lines mean you were slower in those sections, so practice to improve pacing.

## Section vs Chapter (Question Count)
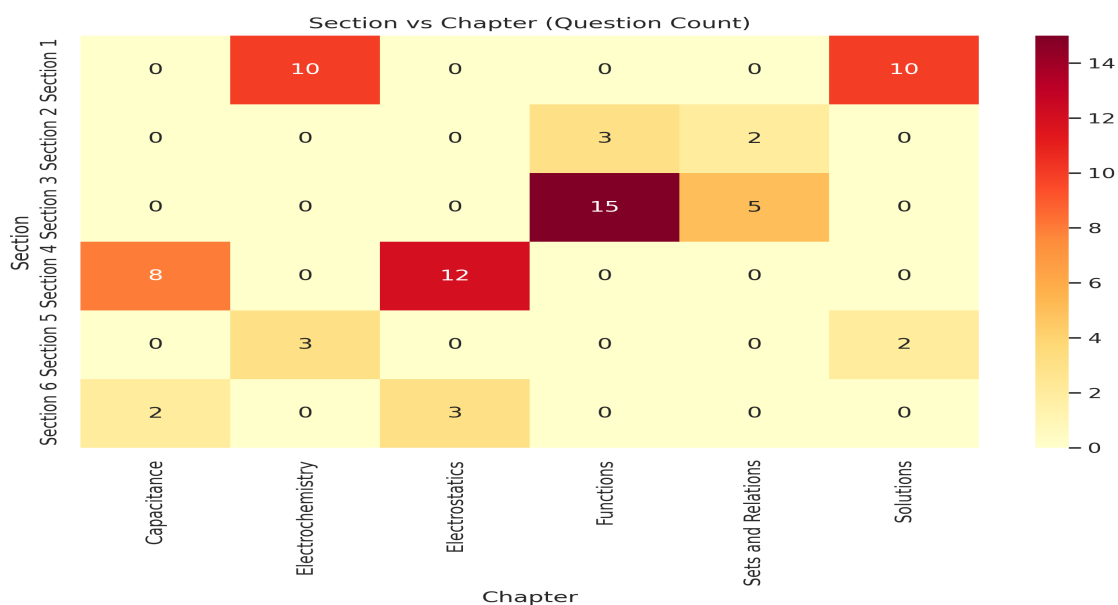
Section Vs Chapter Heatmap

This grid shows how many questions each section had from each chapter. Darker boxes mean more questions, guiding your study focus.

Chapter vs Level (Question Count)
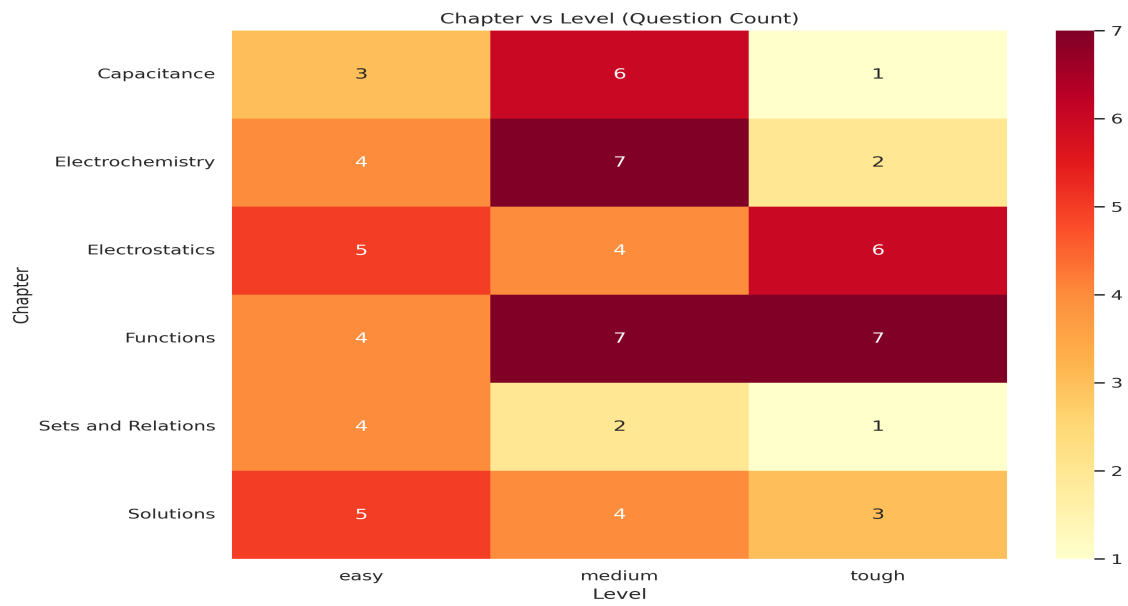
Chapter Vs Level Heatmap

This grid shows how many easy, medium, or hard questions each chapter had. Darker boxes highlight chapters with tough questions to practice.

Level vs Status (Question Count)
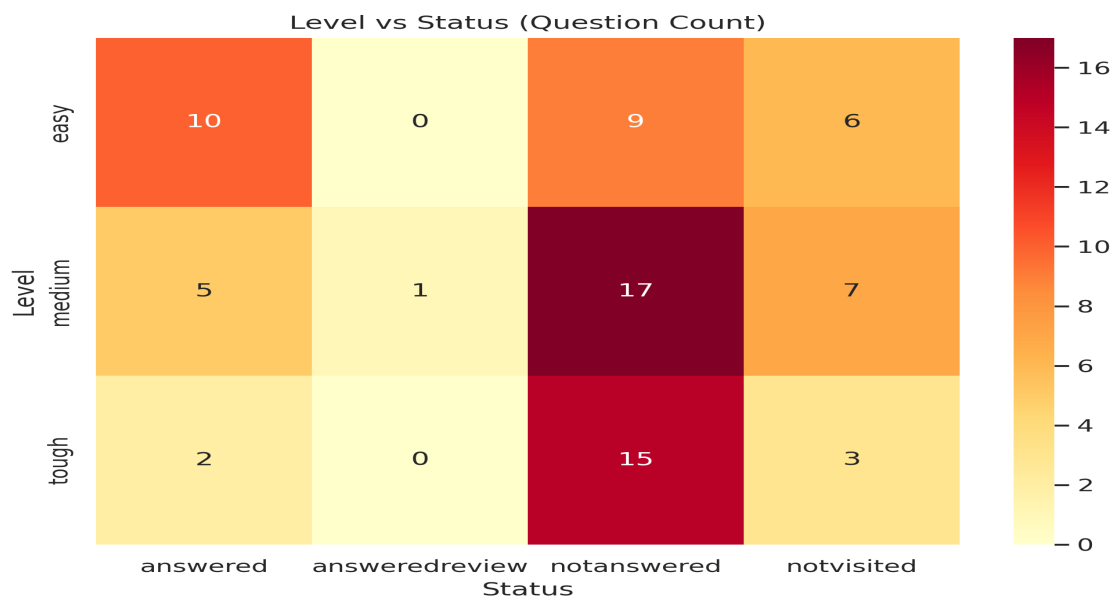
Level Vs Status Heatmap

This grid shows if easy, medium, or hard questions were right, wrong, or skipped. Darker boxes for wrong answers show where to improve.

Status vs Correctness (Question Count)
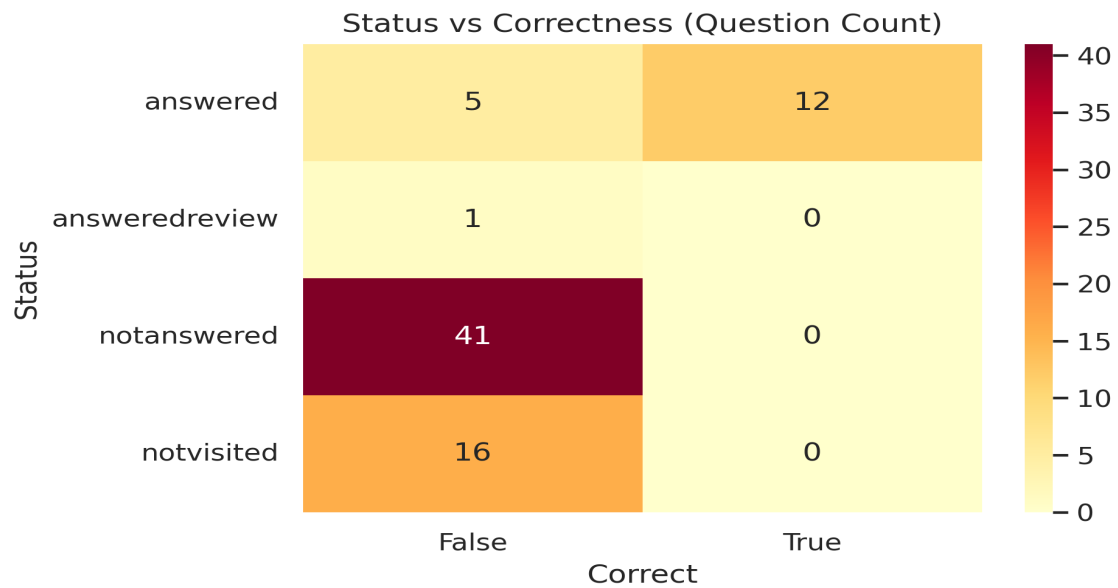
Status Vs Correctness Heatmap

This grid shows if answered questions were correct or incorrect. Darker boxes for incorrect answers highlight areas to review.

Time Taken Distribution by Section
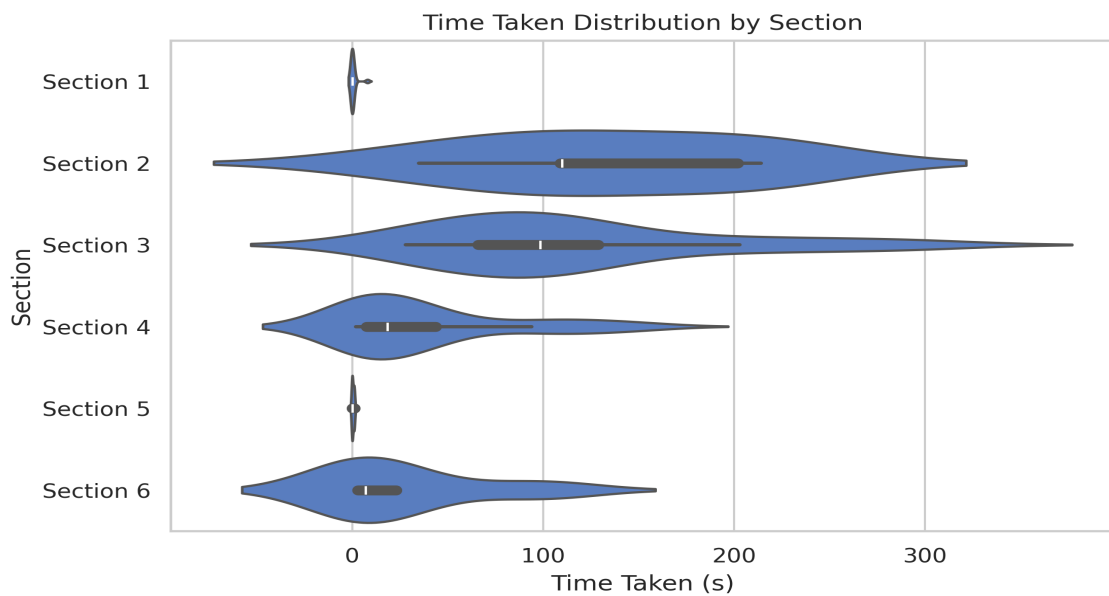
Section Vs Timetaken Violin

This chart shows time spent on questions in each section, with wider shapes for varied times. It helps you see where your pacing was uneven.
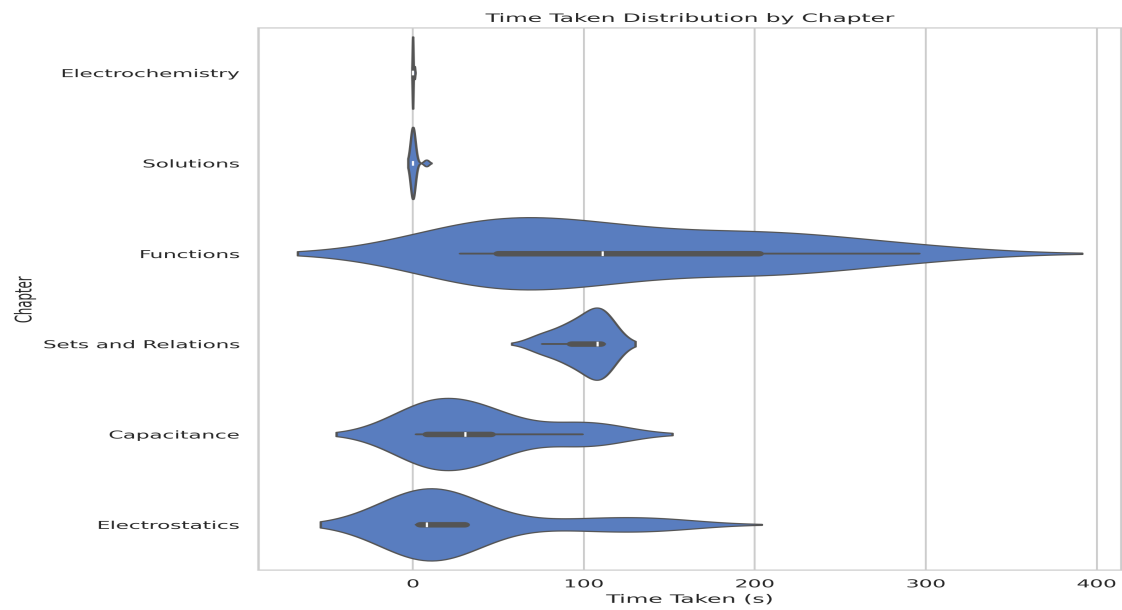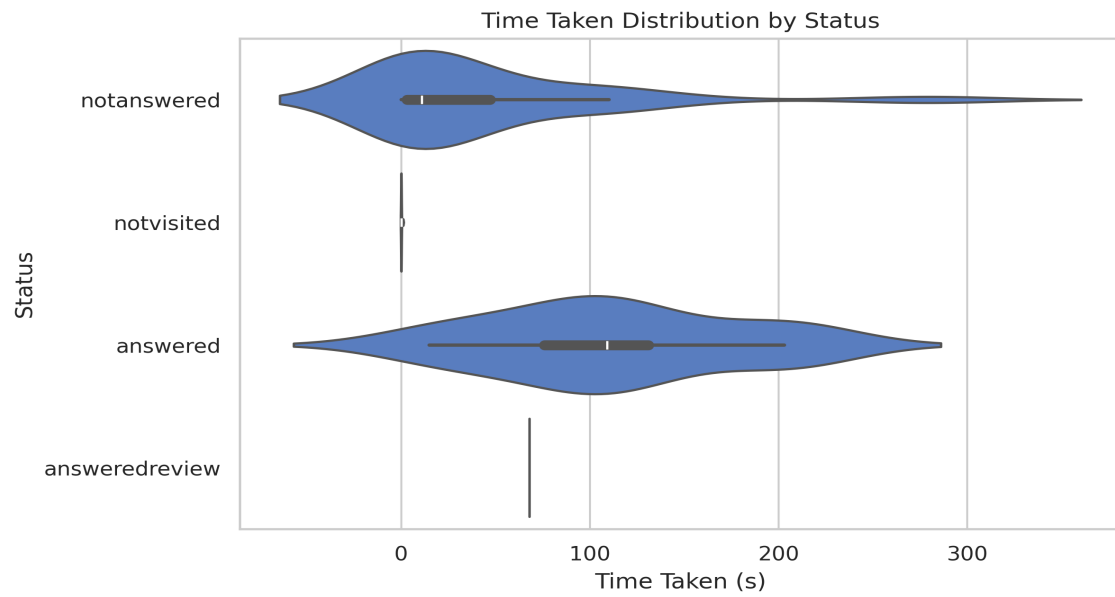
Chapter Vs Timetaken Violin

This chart shows time spent on questions from each chapter, with wider shapes for varied times. It highlights chapters where you were slower.
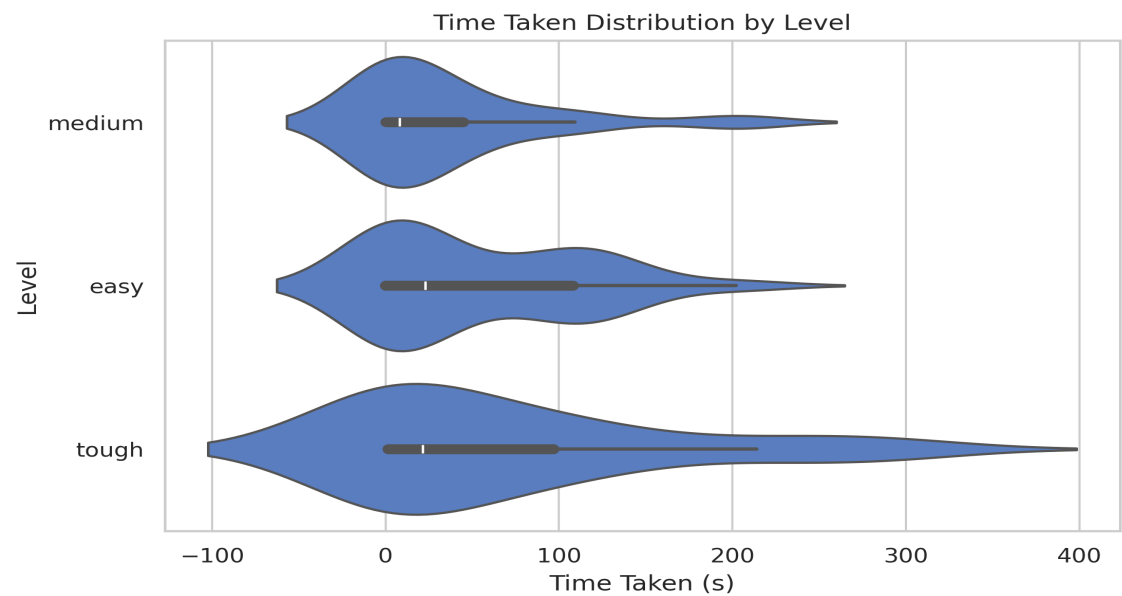
Level Vs Timetaken Violin

This chart shows time spent on easy, medium, and hard questions, with wider shapes for varied times. It shows which difficulty levels slowed you down.

Time Taken Distribution by Status

Status Vs Timetaken Violin

This chart shows time spent on correct, incorrect, or skipped questions, with wider shapes for varied times. It highlights if wrong answers took too long.