

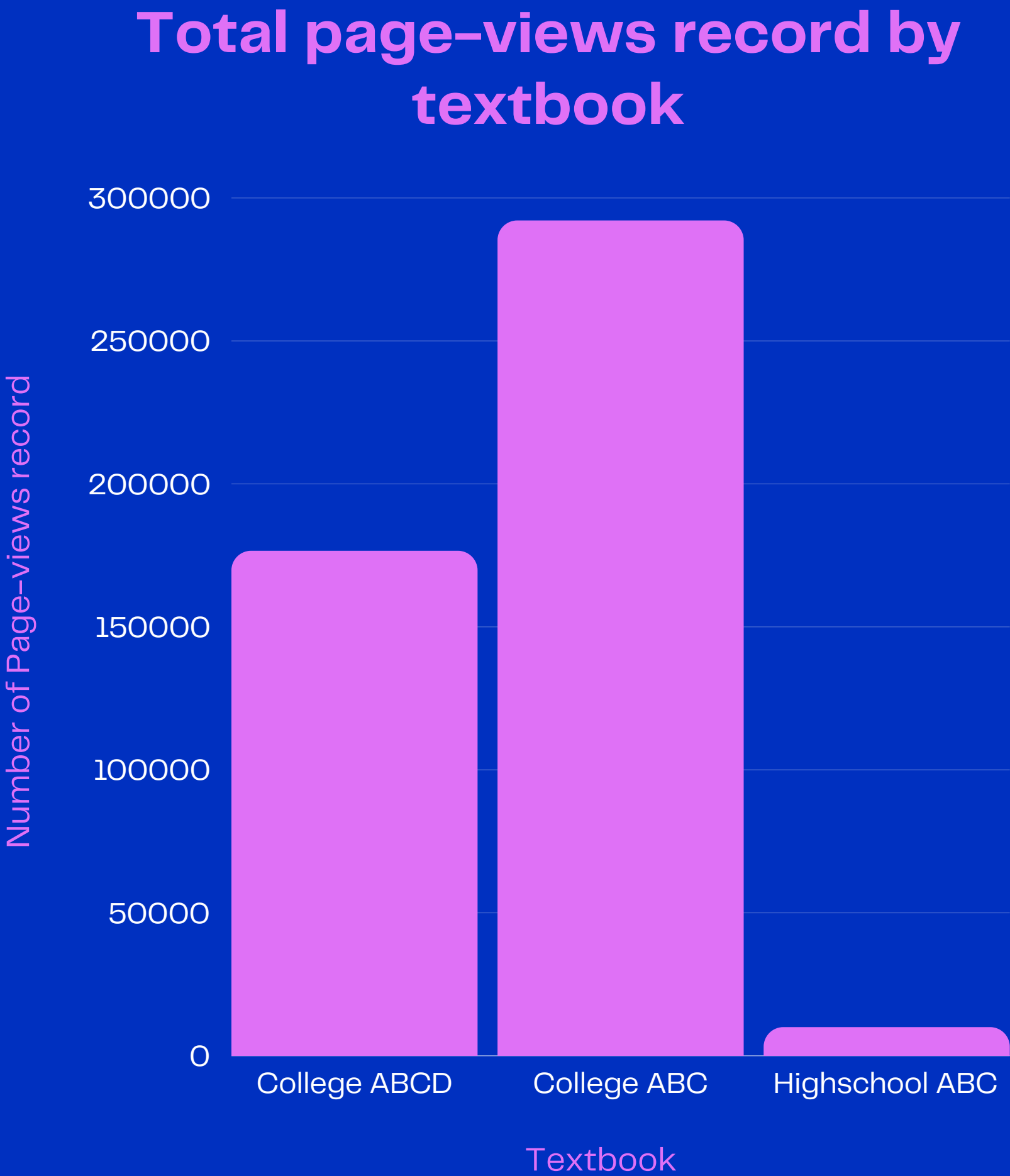


**Which CHAPTER do
students struggle
with the most in
CourseKata
textbook?**

OUR TEAM DECIDED TO FOCUS ON COLLEGE-LEVEL TEXTBOOKS (ABC & ABCD)

High School Textbook (ABC) has

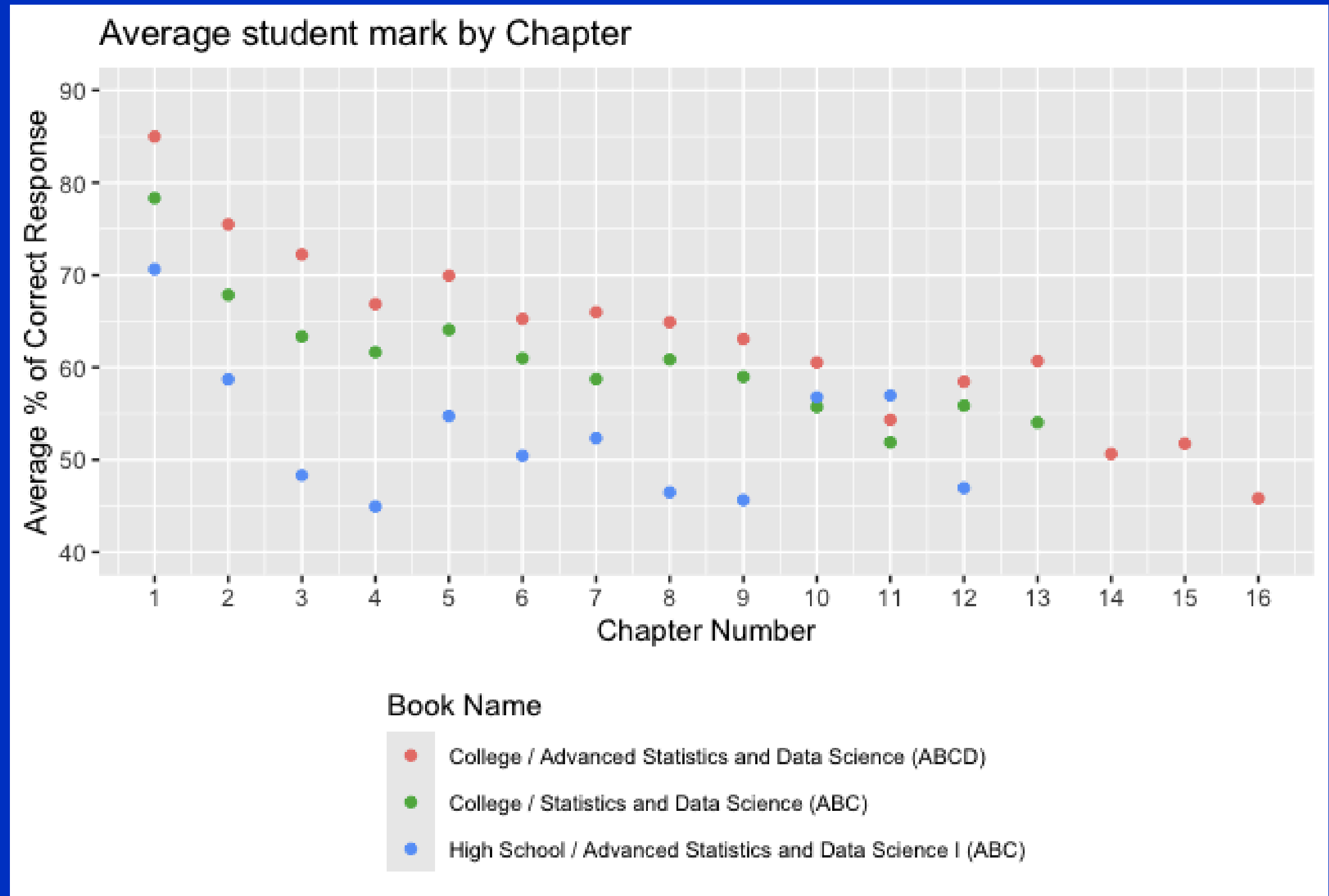
- Significantly smaller sample size
- Much lower understanding in this cohort



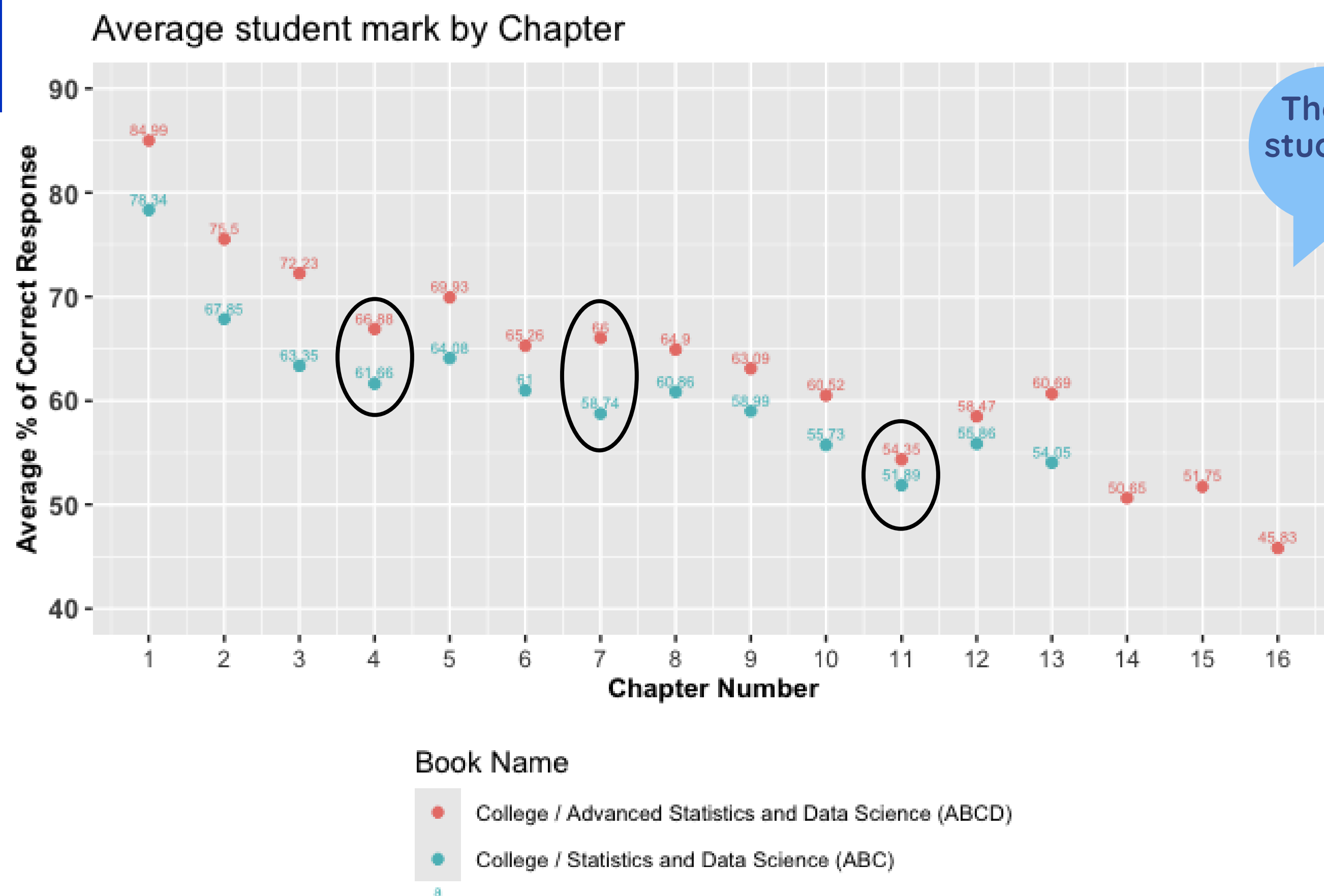
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Student performance across the chapters



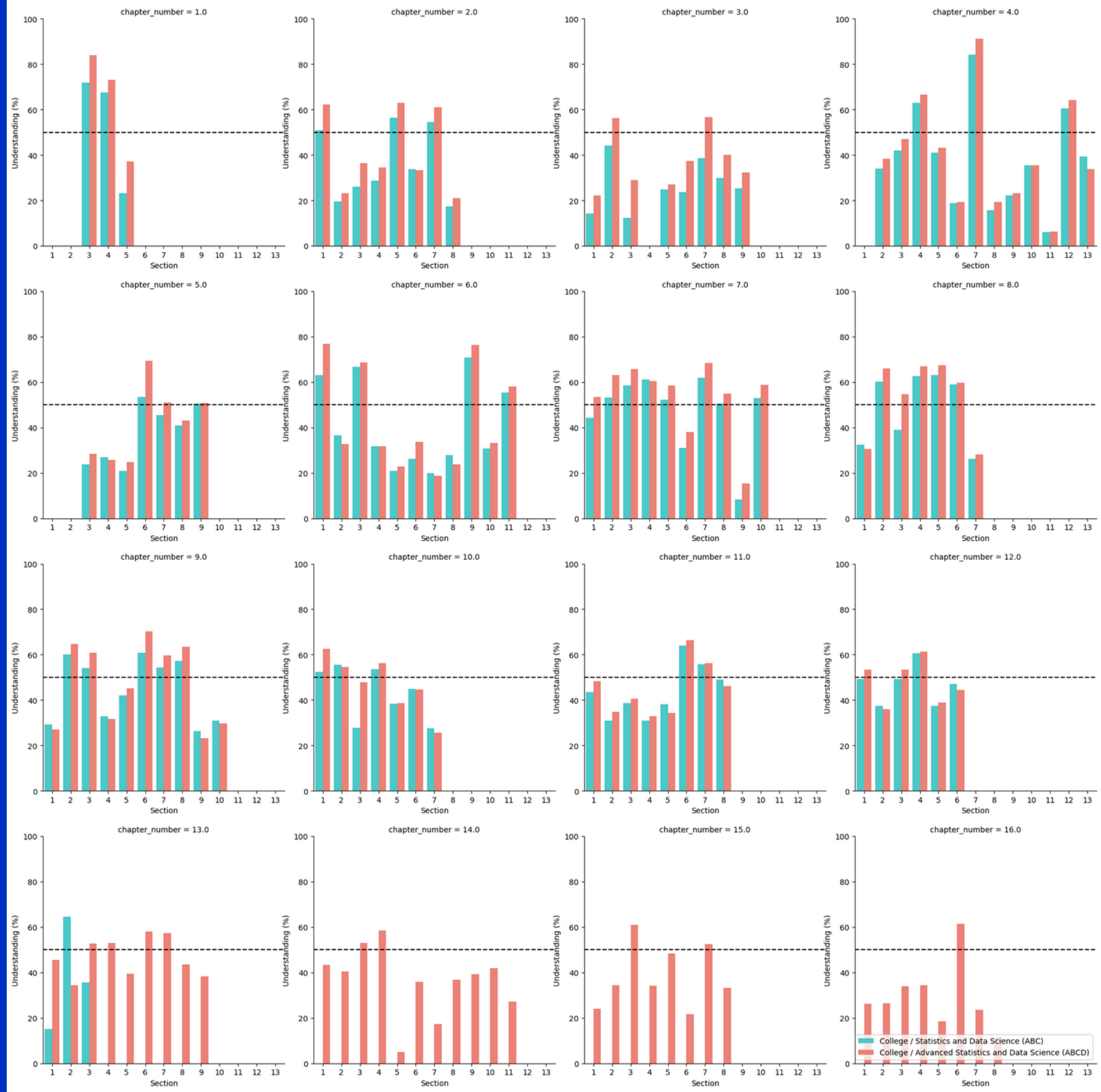
In this graph, we can observe:

- **Initial performances:** High
- **Declining trend** as students progress

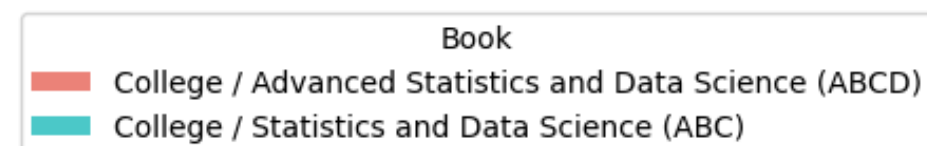
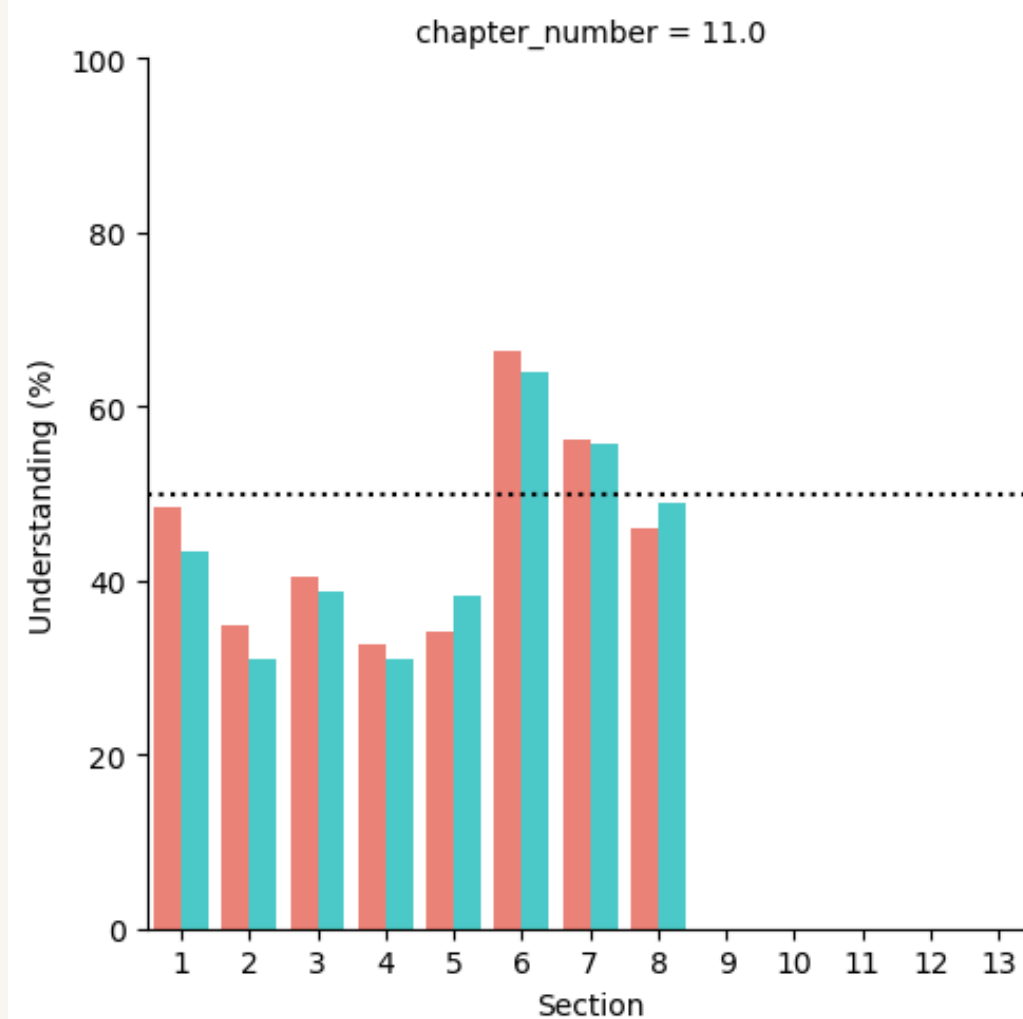
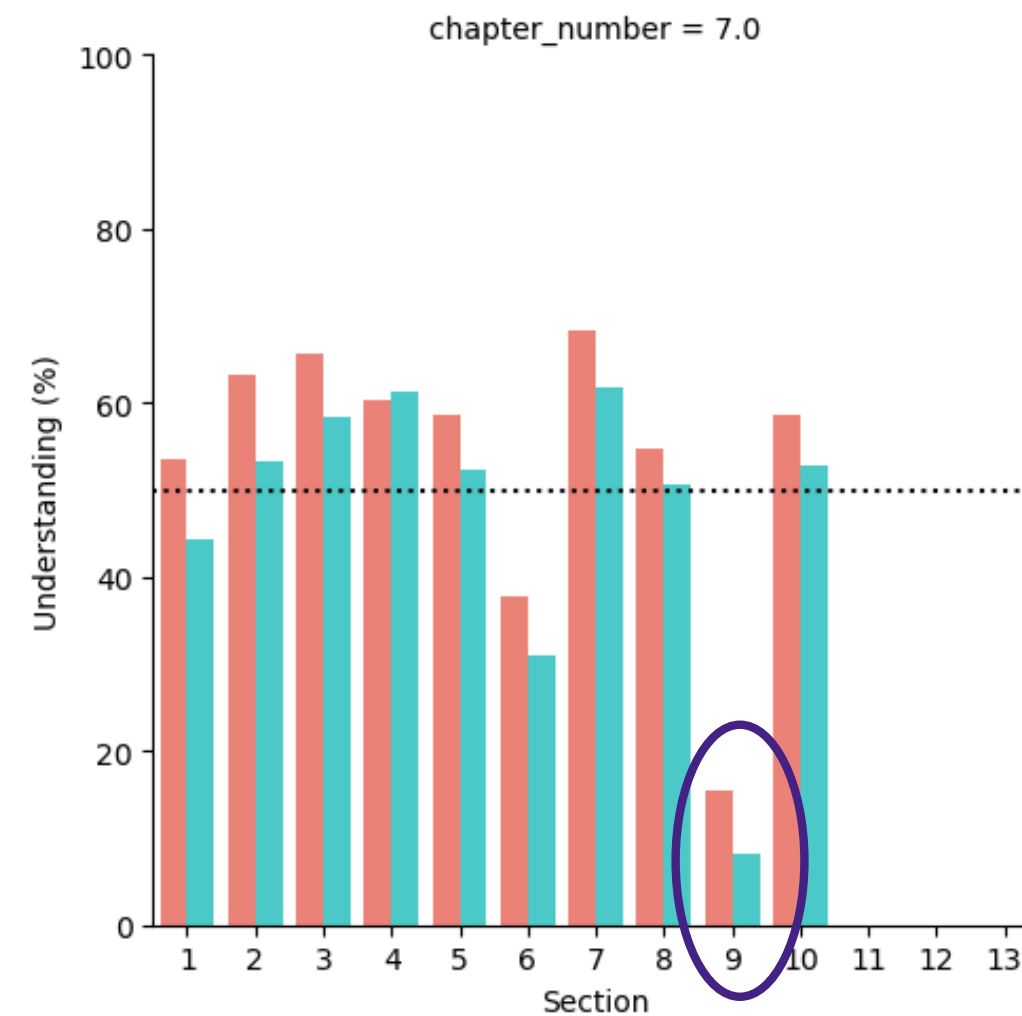
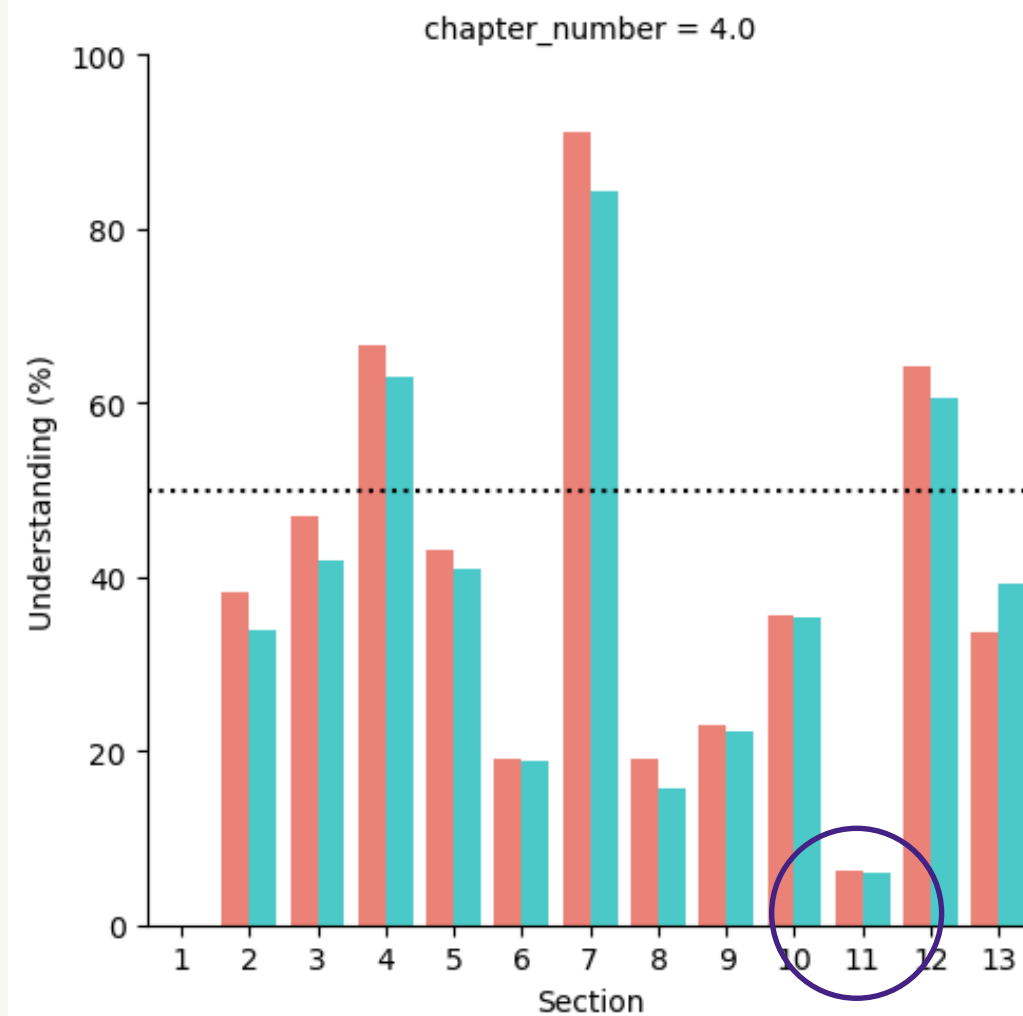
Potential Gap:

- **Learning Gap**
- **Decreasing motivation levels**
- The student marks to student effort levels are to be explored next

Understanding by Chapter & Section



Understanding by Chapter & Section



Understanding per section

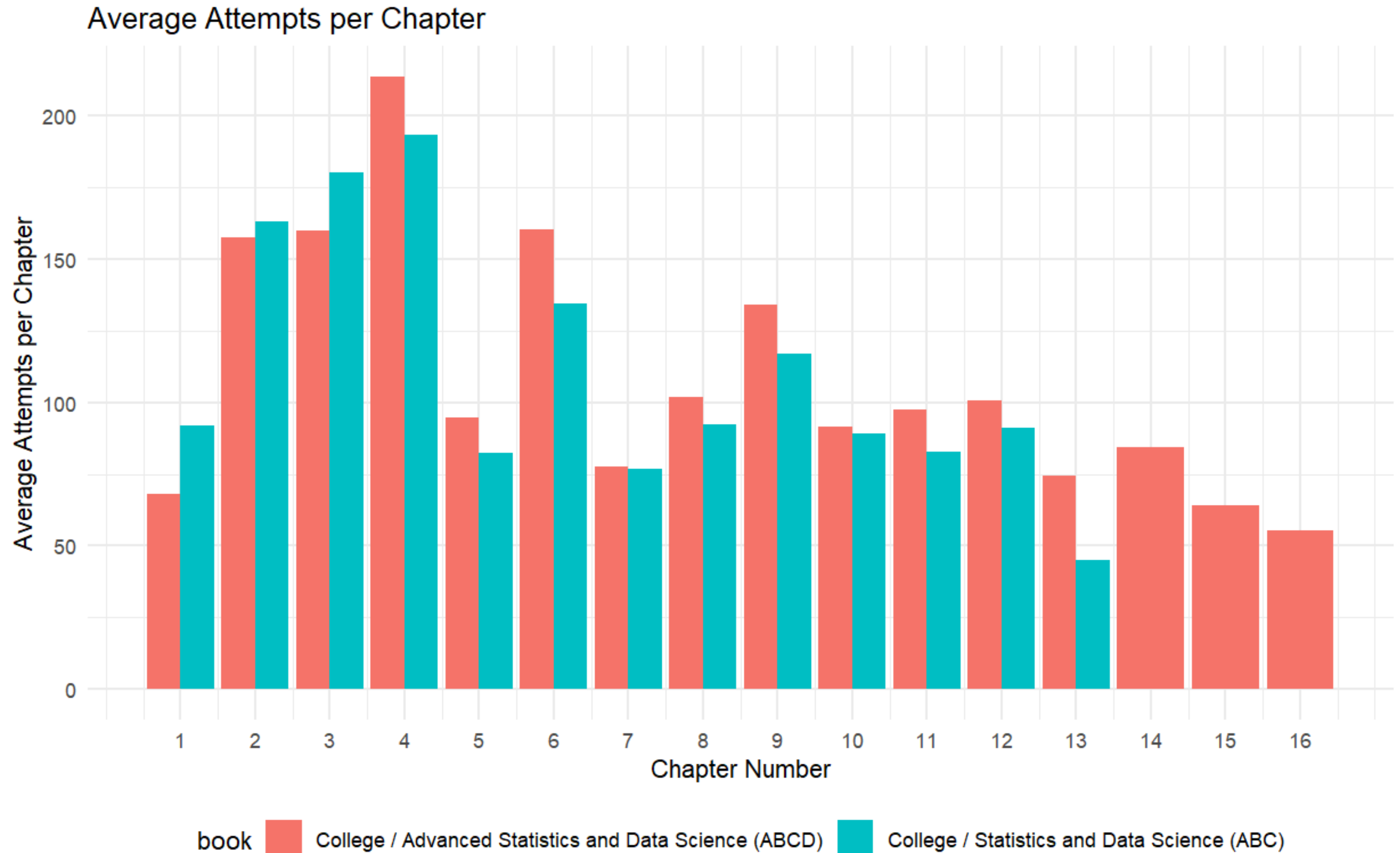
Measuring the average understandability of student learning by assessing the average mark out of the number of attempts made

- **ONLY** understand <50% of most sections in Chapters 4 & 11 compared to other Chapters in the textbooks
- Chapter 4 – Section 11 and Chapter 7 – Section 9 reflect low success rates and understanding

Students' average attempt for each chapter

Chapter 4 has the highest attempt overall

- Student effort of attempts substantially decreased after Chapter 4
- Shows a downward trend of student motivation levels after exerting high attempt rates for low success mark results



Which CHAPTER do students struggle with the most in CourseKata textbook?

Overall, students struggle the most with the topic of **Explanatory Variables** (Chapter 4 & Chapter 7) and **Model comparison with F** (Chapter 11)

Recommendations



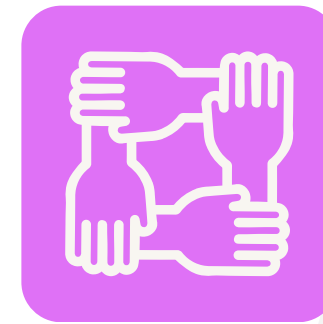
To increase engagement levels

Lean into understanding student learning styles and reducing redundancy in learning materials to increase retention rates



Content analysis

For chapters with higher marks, analyse the content structure, presentation and clarity to understand what makes them successful to improve the chapters with lower marks



Targeted support

Provide additional support resources in chapters that are more challenging e.g. supplementary materials



Feedback mechanisms

Giving immediate feedback on the review performance

Thank you for listening



Sarah Hui



Minh Nguyet Ngo



Thi Minh Thao (Suzie) Le



Phuc Linh Nguyen



Kelly Wang



TEAM BANANA