

Monitoring students' responses to an individual test with TI-Nspire™ Navigator™

Teacher – Bert Wikkerink, CSG Liudger, Netherlands

Case Study



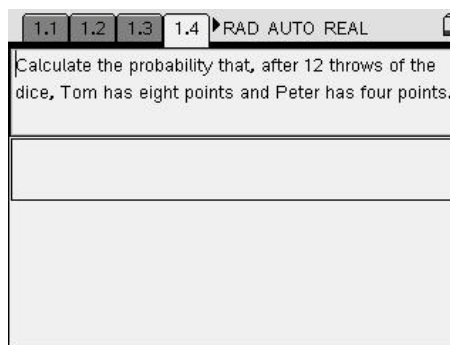
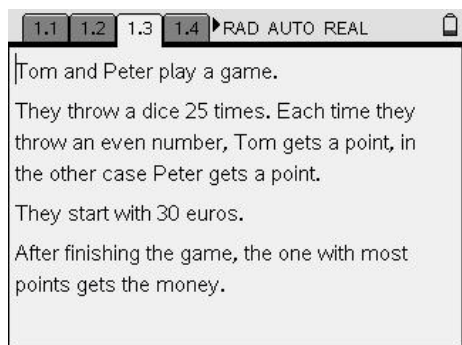
Your Expertise. Our Technology. Student Success.

Monitoring students' responses to an individual test with TI-Nspire™ Navigator™

Teacher	Bert Wikkerink
Location	CSG Liudger, Drachten, Netherlands
Course	5VWO Math D
Technology	TI-Nspire™ Navigator™

Setting: CSG Liudger is a state secondary school in the Netherlands. I have been using TI-Nspire™ handhelds and software with this group of students since September 2007 and TI-Nspire™ Navigator™ since May 2009. In this lesson I used File transfer, Screen Capture and File collection features.

The lesson: I began by sending the students the TI-Nspire™ file which contained a series of problems designed to assess their understanding of the theory relating to the binomial distribution. The students worked on these questions individually using their TI-Nspire™ handhelds.



Whilst they were working, I monitored their progress by displaying the Screen Capture view privately on my laptop. I was looking to see how quickly they progressed through the questions and also to observe their choices of strategy in responding to each question. I saved some chosen Screen Capture images from the students' handhelds that I thought were particularly interesting. As I was able to see when all of the students had completed the test, I was able to use TI-Nspire™ Navigator™ to collect the TI-Nspire™ file from their handhelds and use the

remaining time in the lesson for whole class discussion about the problems. As I already had an idea about how different students had approached the problems, I was able to display some of the saved students' screens and ask the individual students' concerned to share their strategy with the class.

Students' mathematical learning

By monitoring the students' activities whilst they were answering the problems I was able to see the wide range of approaches that the students used. For example, one student chose to insert a Spreadsheet page to create a probability distribution table to help him reach a solution.

Conclusion

Using Screen Capture in this way gave me a real insight into the way that the students went about solving the problems. It also supported the students to see a range of strategies and learn from each other.