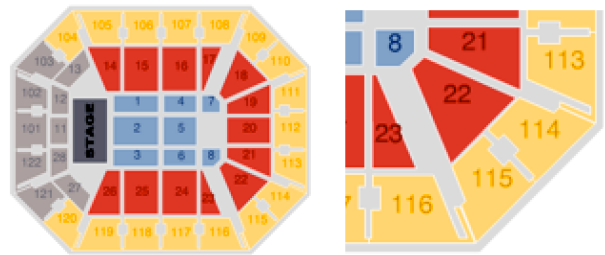


In the arena at Mohegan Sun, the seats in many of the sections follow a pattern. Section 22 has 7 seats in row one, 8 seats in row two, 9 seats in row three, etc. It has 16 rows all together. Answer the following questions, using GeoGebra to help. Explain each answer.



1. How many seats are there all together in section 22?
2. How many rows have 17 or more seats?
3. Which row are you in if there are 84 people in your section in front of you?


Open a new GeoGebra window. Choose Spreadsheet & Graphics. Build your lists of rows and seats. Use to scale the window for your data. Highlight the rows and click on to make a set of points.

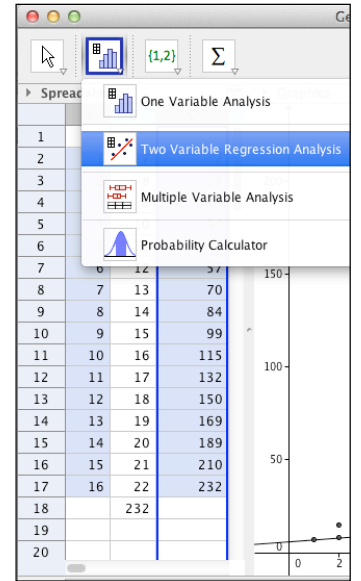
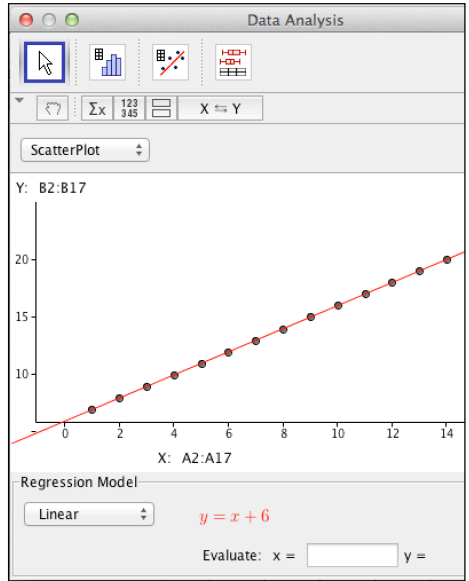
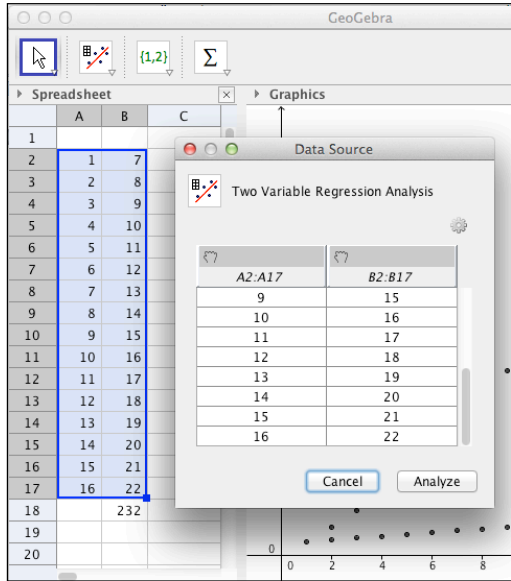
Highlight the data to sum, and click . For a running total, we need a formula.

2	1	7	7
3	2	8	$=C2+B1$

We can now answer the questions that were asked!

If you wanted to find the equations that model these points, you could use the regression tools. We'll take a quick look at those on the next page.

Highlight the rows and click on  to get the Regression Analysis tool. Choose Analyze, then Linear. Repeat for the sums, choosing polynomial.



Many other statistical measures are available in the Data Analysis Pane. (Interesting residuals, eh?)

