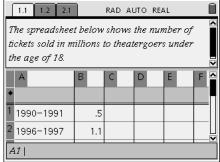
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In this activity, you are going to explore some of the functions of the new handheld TI-Nspire<sup>TM</sup> handheld. Open up the Intro.tns file by pressing the  $\mathbf{C}$  key. Select 6:MY DOCUMENTS, scroll to the file, and press •. Figure 1 shows what the Intro.tns file looks like when it is open on your TI-Nspire<sup>TM</sup> handheld.



## **Initial Problem:** Thinking it through

- 1. After reading the opening screen press / and the  $\not c$  on the NavPad to move to page 1.2.
- Q1: What does column A represent?\_\_\_\_\_
  - 2. Using the NavPad, navigate to the blank cell next to the A and type in the name of the variable.
  - 3. Do the same for column B.
  - 4. Highlight cell A1 and change the contents to read 0.
- Q2: What would you change cell A2 to? Explain why.
  - 5. Make the change to the contents of cell A2.
- Q3: What would be a question we could answer based on this data?

## **Problem #1.3: Graphical Representation**

- 1. Press / and the **¢** on the NavPad to move to the next page of problem 1 (tab header 1.3).
- Q4: What would the x-axis represent? The y-axis? Explain.
  - 2. Press **b**, 3: GRAPH TYPE, and 3: SCATTER PLOT.
  - 3. Press to open the x field and choose your x variable using the NavPad and •. Do the same for the y variable.

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<b>Q5:</b> ]	Mathematically and in context, describe the relationship you see.
4.	To get a better view press <b>b</b> , 4: WINDOW, and 9: ZOOM-STAT.
	To get a better view press <b>2</b> , 1. With Do W, and J. 2000 Birth.
5.	On paper you would connect the points with a line, calculate the slope, calculate the y-intercept, determine the equation of the line, and then use this line to answer the question posed. On the handheld
	Press <b>e</b> to move to the graphical display, you should see your arrow tool
	Press <b>b</b> , 6: POINTS & LINES, 4: LINE
	Move to the first point and press
	Move to the other point and press
	d to close the line tool
	Press <b>b</b> , 7: MEASUREMENT, 3: SLOPE
	Move to the line and press
	d to close the slope tool
	Press <b>b</b> , 1: TOOLS, and 6: COORDINATES AND EQUATIONS
	Press <b>d</b> to close the equation tool
6.	Move the arrow to the equation until you see the open hand. Press $/$ and the $X$ to grab the equation
	and now move it to a clear space on the screen. Press • to release the equation. Repeat for the slope.
7.	See board for saving instructions.
Q6:	Identify the slope, the y intercept, and the equation of the line.  Slope =
	y-intercept =
	Equation of the line =
Q7:	Write the equation of the line in context of the variables used.
-	Equation of the line =

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Q8:	Describe the slope and y-intercept in terms of the variables.								
	Slope =								
	y-intercept =								
Q9:	Answer the question you posed in Q3. Show all of your work. Describe completely how yo								
	solved the problem.								

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