

Name: _____

Date: _____

In this activity, you are going to explore some of the functions of the new handheld TI-Nspire™ handheld. Open up the Intro.tns file by pressing the **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™ handheld.

The screenshot shows a TI-Nspire handheld interface with a spreadsheet. The top status bar shows tabs 1.1, 1.2, and 2.1, and modes RAD, AUTO, and REAL. The spreadsheet has columns A through F and rows 1 and 2. The text above the spreadsheet reads: "The spreadsheet below shows the number of tickets sold in millions to theatergoers under the age of 18." The data in the spreadsheet is as follows:

	A	B	C	D	E	F
1	1990-1991	.5				
2	1996-1997	1.1				

Initial Problem: Thinking it through

1. After reading the opening screen press / and the **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 **C** 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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Q5: Mathematically and in context, describe the relationship you see.

- To get a better view press **b**, 4: WINDOW, and 9: ZOOM-STAT.
- 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 **e** to move to the graphical display, you should see your arrow tool

Press **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**, 7: MEASUREMENT, 3: SLOPE

Move to the line and press **▪**

d to close the slope tool

Press **b**, 1: TOOLS, and 6: COORDINATES AND EQUATIONS

Press **d** to close the equation tool

- 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.
- 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 you solved the problem.

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Screen Shots

The spreadsheet below shows the number of tickets sold in millions to theatergoers under the age of 18.

	A	B	C	D	E
1	1990-1991	.5			
2	1996-1997	1.1			
3					
4					
5					

