Name:	Date:	
In this	activity you are going to explore some of the functions of the new handheld TI-Nspire TM calculator.	
Open u	up the Intro-proof.tns file by pressing the C key. Select 6:MY DOCUMENTS, scroll to the file, and press	
•. Figu	are 1 shows what the Intro-proof.tns file looks like when it is open on your TI-Nspire TM handheld.	
<u>Initial</u>	Problem: Old Method	
1.	Read the opening screen press $/$ e to move to the calculator section of the screen. Simplify the expression.	
Simpli	fied expression =	
Q1: Explai	Could you do this without the calculator? Can you just jump to the answer without showing work? n	
<u>Proble</u>	em #1: A New View	
2.	Press / $\not C$ to get to the next page of problem one (1.2).	
3.	You are now looking at a proof format of the evaluation process. It shows every step of the simplification process – your brain on algebra.	
Q2:	How does this method differ from the old method? What are the benefits? Explain.	

4. Work through pages 1.3, 1.4, 1.5, 1.6, and 1.7. Follow the directions on the pages. Use your notes or your textbook if you need help with naming the properties.

Name	ma.	Data
	blem #2: An Extension	Date:
5.	5. Navigate to problem 2.	
6.	6. Use the calculator tool in the bottom of the question. Locate 3 distinct values of a and	split screen to locate values of a and b that answer the b that satisfy the conditions.
Pair O	One a = b =	
Pair T	Two a = b =	<u> </u>
Pair T	Three $a = b =$	<u> </u>
7.	7. Use the above information to help you answ	ver the question on 2.2.
<u>Probl</u>	blem #3: Geometric Connection	
8.	8. Navigate to problem #3.	
9.	9. Press b , 1: Tools, and 5: Text.	
10	10. Move the arrow tool over to one of the emp	oty sides and a . Enter the value of the side.
11	11. Repeat for the next side.	
12	12. d to stop the text tool.	
Q3:	•	the rectangle? What expression would you set up to calculate
the are	area of the rectangle?	
13	13. Use the next screen to show all of the steps	necessary to calculate the perimeter of the rectangle.
Area =	a =	
Perim	imeter =	

Name	e:
Prob	olem #4: Rules, Rules, Rules
1	4. Navigate to problem #4.
1.	5. You are now viewing the rectangle problem using a spreadsheet.
Q4:	What do the columns represent?
Q5:	What are the rules for columns B and C? Explain what they represent.
Q6:	Do all of the values make sense? Explain why or why not.
1	6. If any of the data values make no sense, move to a cell on the row, press 4 and . to delete the values.
1	7. To add data, go to the next empty cell in column A and enter an x value. Press •.

- 18. Using the Fill down function...
 - ✓ Move up using the NavPad cursor control until A1 is boxed in.
 - \checkmark Press the $g^{\mathbf{p}}$ at the same time. This will highlight the first two cells in the A column.
 - ✓ Press **b** 3: Data and 3: Fill Down
 - ✓ Move down using the NavPad until the highlighted border is in cell A10.
 - ✓ Press the to fill the column.

Columns B and C should automatically fill in since formulas have been used.

Name	: Date:
Proble	em #4: Getting a Visual
19	. Press / and the ¢ on the NavPad to move to the next page of problem 4.
20	. Press b , 3: GRAPH TYPE, and 3: SCATTER PLOT.
21	. Press • to open the x field and choose your x variable using the NavPad and •. Do the same for the y variable. You will need to choose the perimeter variable here.
22	a. To get a better view press b , 4: WINDOW, and 9: ZOOM-STAT.
Q7:	Mathematically and in context, complete the sentence. As the variable x increases the
Q8:	Explain why this relationship is reasonable to expect
23	. Use the `to move to S2. Plot the x value versus the area.
Q9:	Mathematically and in context, explain the relationship.
Q10:	Compare and contrast the area and the perimeter of the rectangle.

20 X

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