

Linear Regression with the TI-nSpire

Weekly Sales Data Based on Marketing Research

Price per box	Boxes sold
\$2.40	38,320
\$2.60	33,710
\$2.80	28,280
\$3.00	26,550
\$3.20	25,530
\$3.40	22,170
\$3.60	18,260

Enter the data

From the Home Screen:

Select **1: New Document**

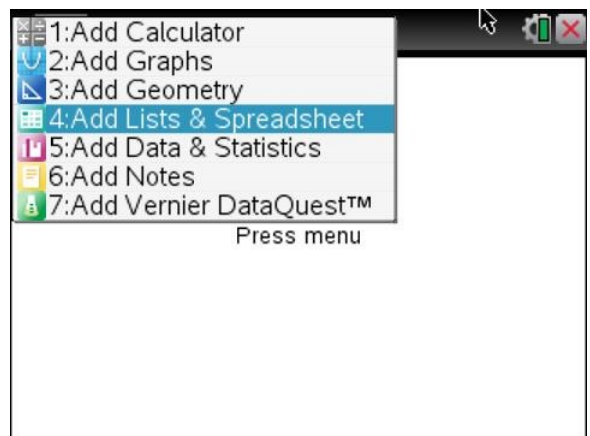
Arrow down to **4: Add Lists & Spreadsheet**

Arrow up to the top box labeled "A".

Title the columns.

*Note: Spaces are not allowed in the title.
Use "price_per_box" rather than "price per box".*

Enter the data in the appropriate columns.



Plot the points

Insert a new page for the scatterplot:

Press **Doc**

Arrow down to **4: Insert**

Arrow down to **7: Data & Statistics**

You should see a screen like this...

Order the points into a scatterplot:

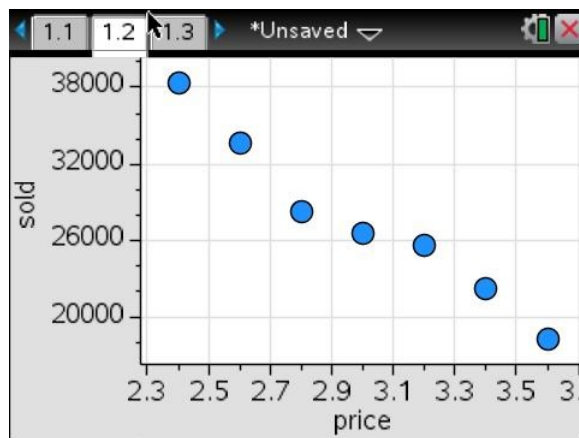
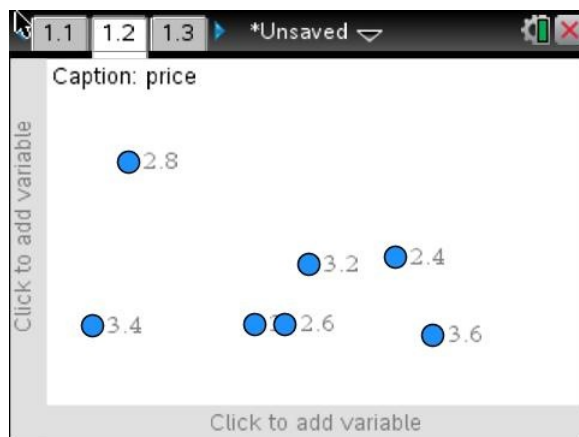
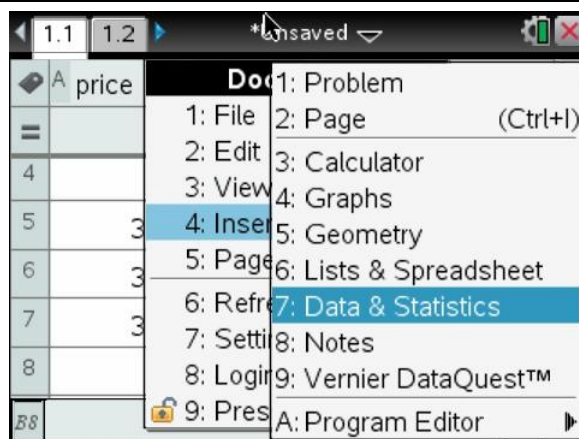
Move the arrow down to and click the center bottom of the screen ("Click to add variable")

Select **price**

Move the arrow over to and click the center of the left of the screen ("Click to add variable").

Select **sold**

Your scatterplot should be complete and look like this...

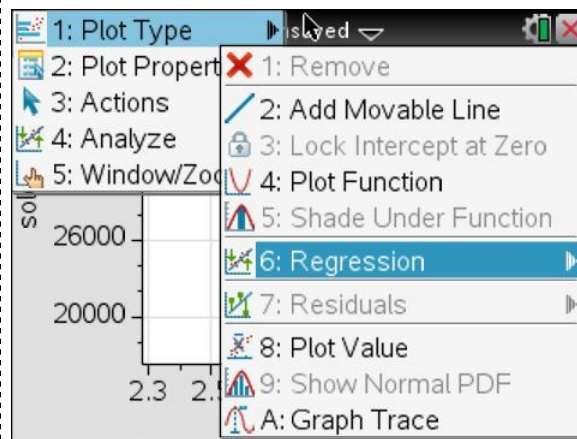


Create the regression line

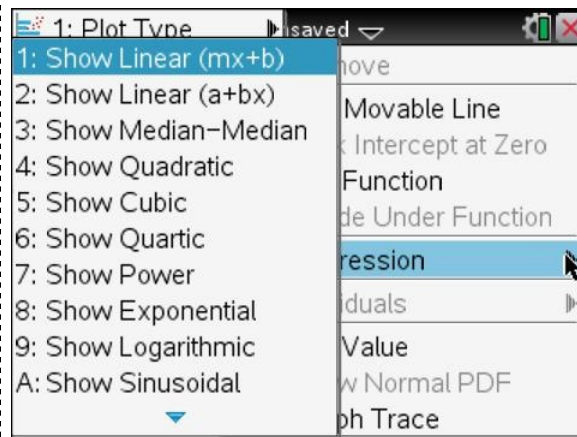
Press **Menu**

Arrow down to **4: Analyze**

Arrow down to **6: Regression**



Select **1: Show Linear (mx + b)**



You should now have your regression line graphed on your scatter plot. The equation should also be labeled as it is here...

Note: You can move the equation to a different location by using the click/touch wheel. Look for the grasping hand icon.

