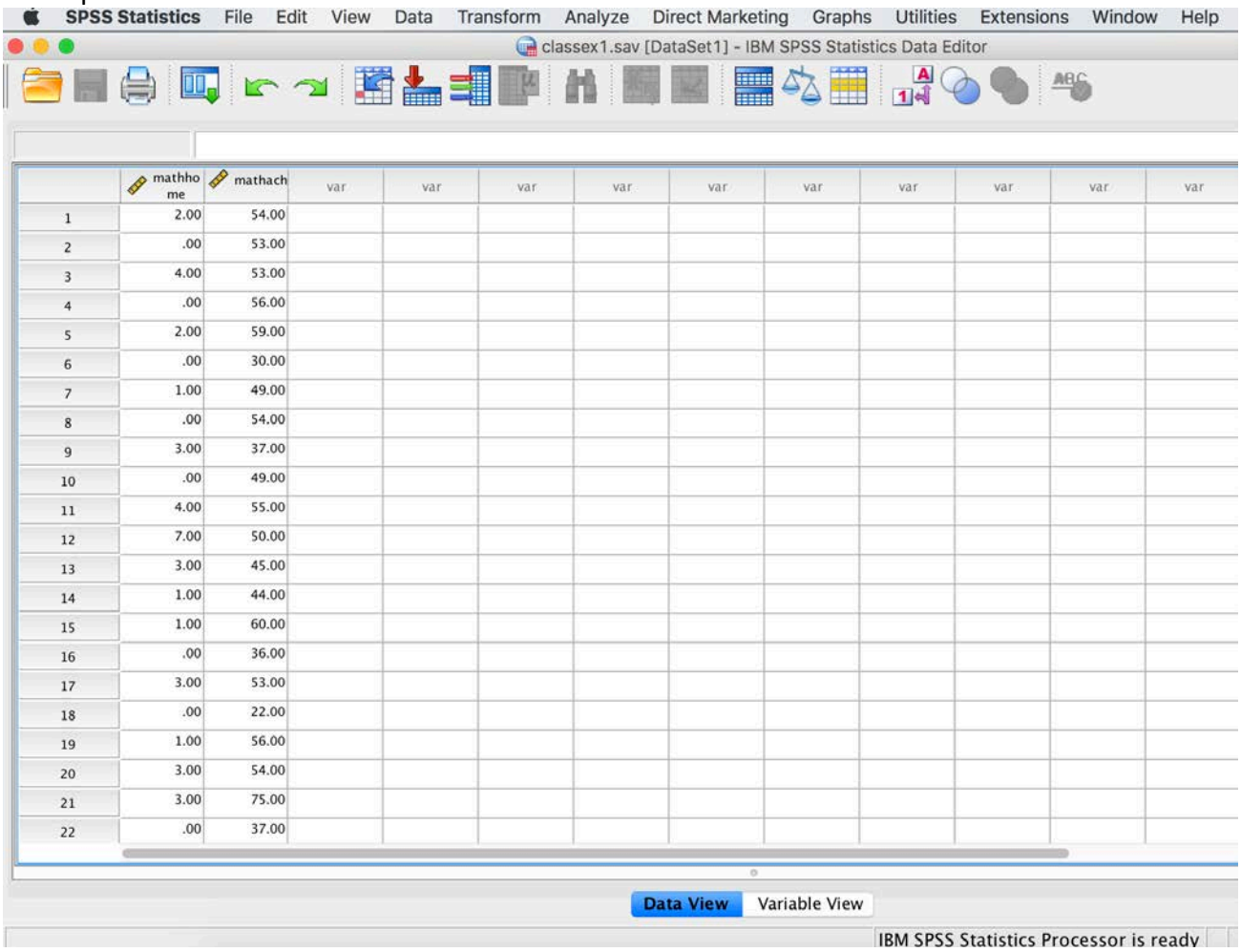
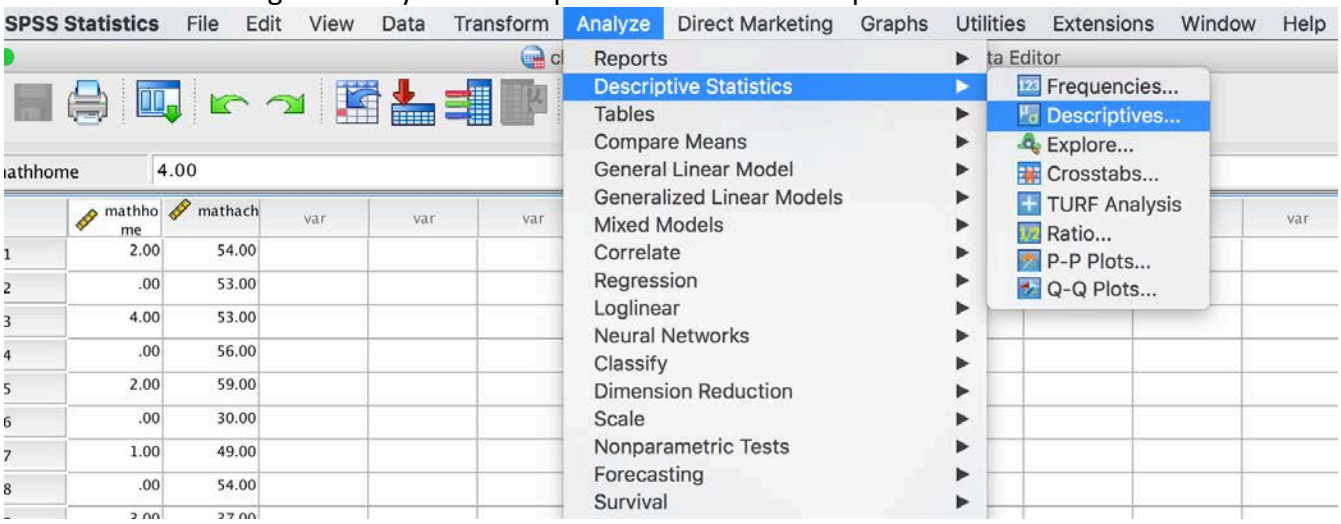
SPSS Guide

1. Open dataset

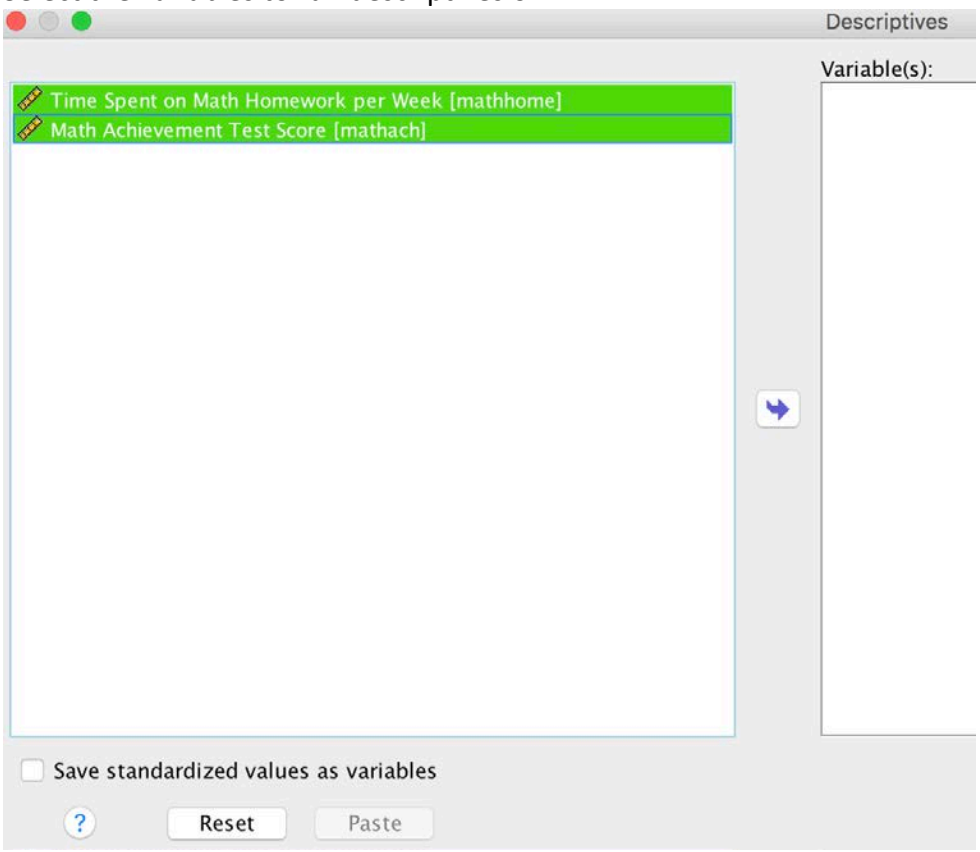


	mathhome	mathach	var	var	var	var	var	var	var	var	var	var
1	2.00	54.00										
2	.00	53.00										
3	4.00	53.00										
4	.00	56.00										
5	2.00	59.00										
6	.00	30.00										
7	1.00	49.00										
8	.00	54.00										
9	3.00	37.00										
10	.00	49.00										
11	4.00	55.00										
12	7.00	50.00										
13	3.00	45.00										
14	1.00	44.00										
15	1.00	60.00										
16	.00	36.00										
17	3.00	53.00										
18	.00	22.00										
19	1.00	56.00										
20	3.00	54.00										
21	3.00	75.00										
22	.00	37.00										

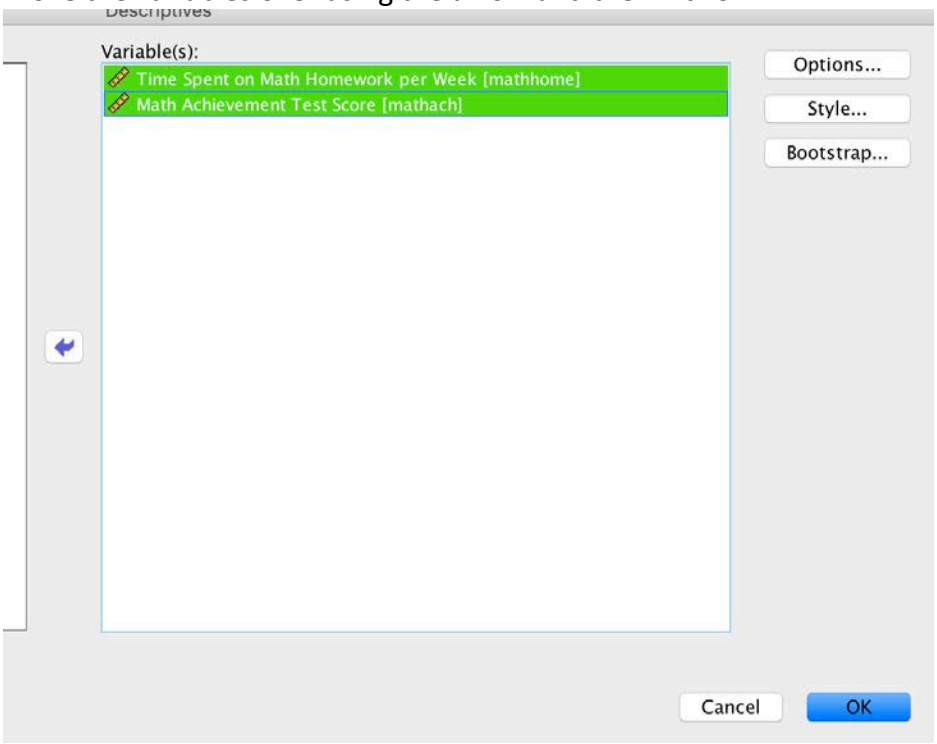
2. Run Descriptives:
   a. In the menu bar go to Analyze > Descriptive Statistics > Descriptives



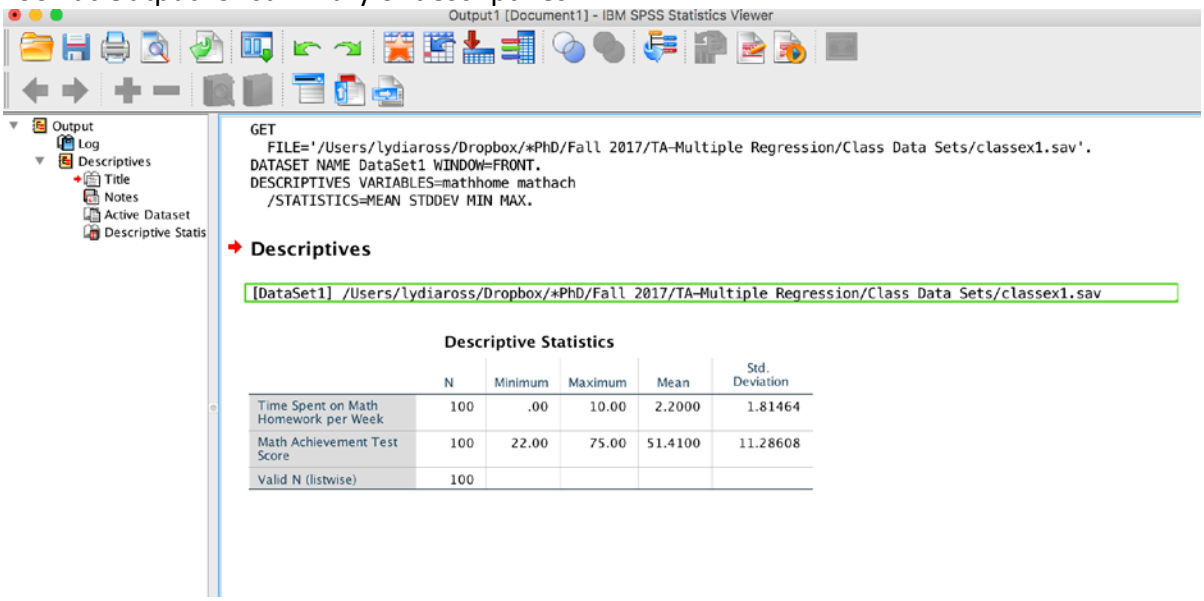
b. Select the variables to run descriptives on



c. Move the variables over using the arrow and then hit “ok”

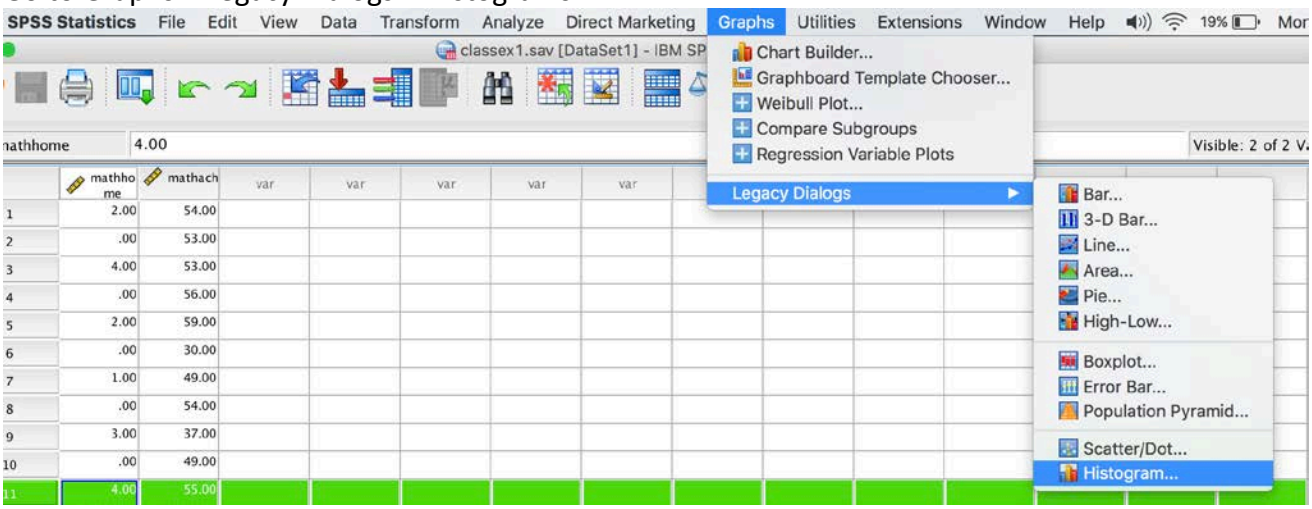


d. Look at Output for summary of descriptives

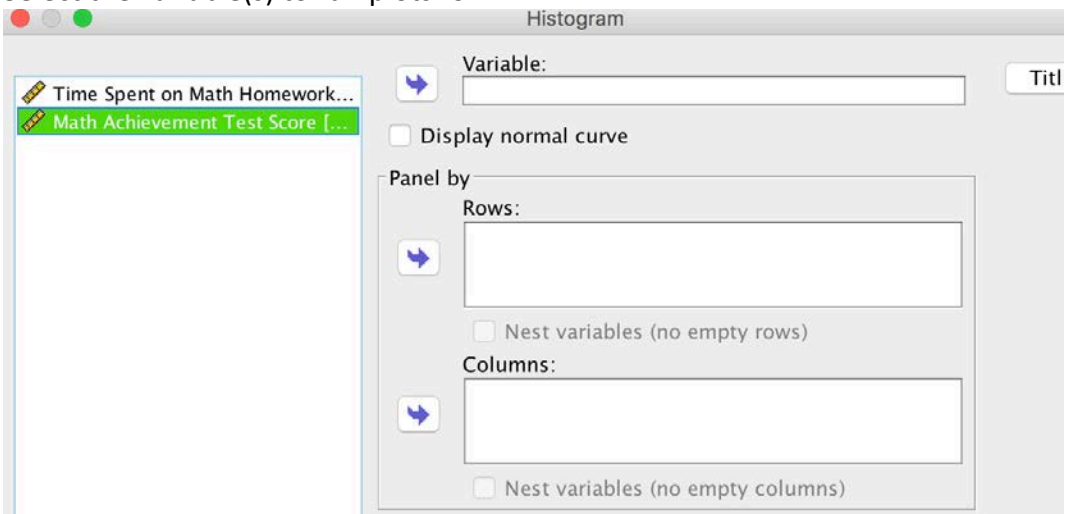


	N	Minimum	Maximum	Mean	Std. Deviation
Time Spent on Math Homework per Week	100	.00	10.00	2.2000	1.81464
Math Achievement Test Score	100	22.00	75.00	51.4100	11.28608
Valid N (listwise)	100				

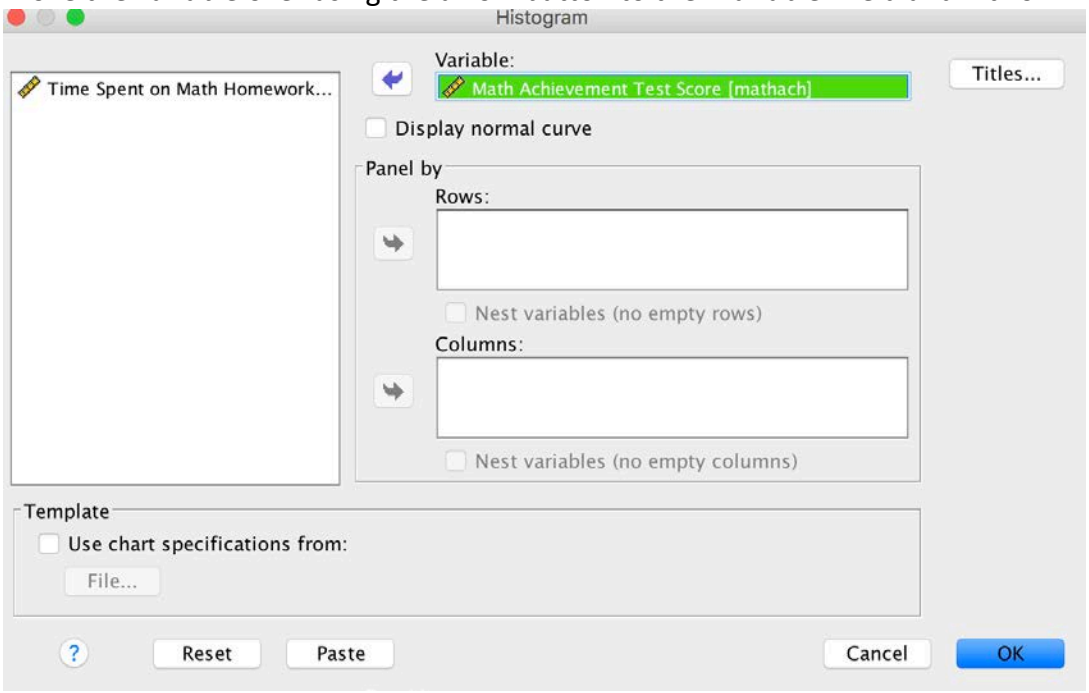
3. Draw Histogram
   a. Go to Graphs > Legacy Dialogs > Histograms



   b. Select the variable(s) to run plots for

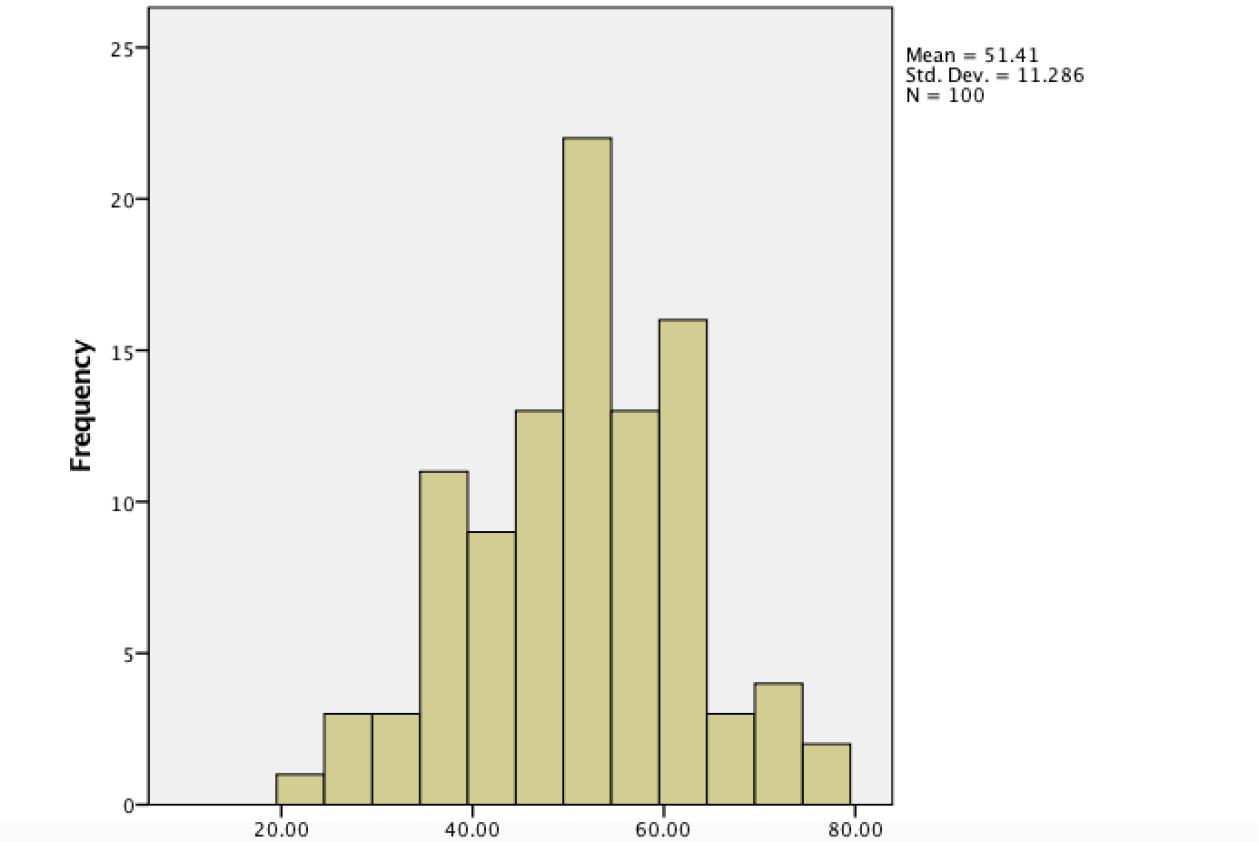


c. Move the variable over using the arrow button to the “variable” field and hit “ok”



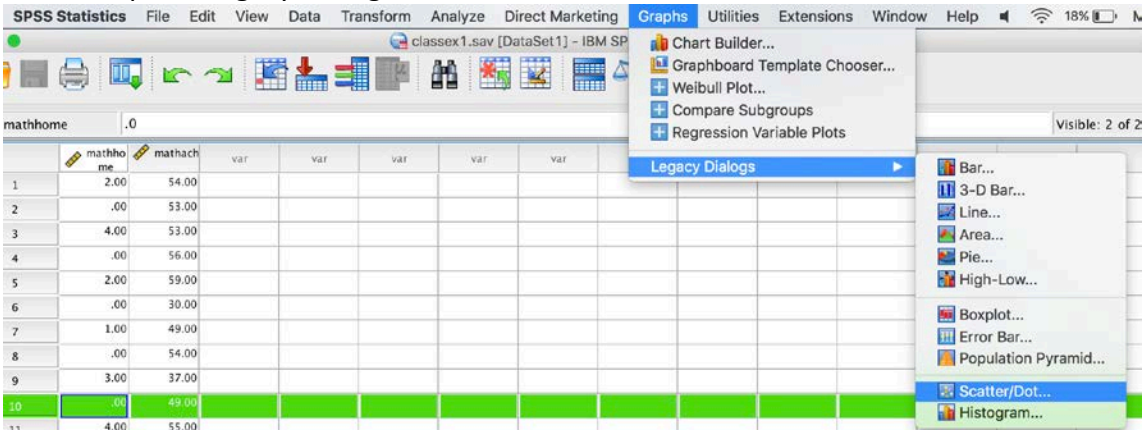
d. Graph will appear in the output window

Graph

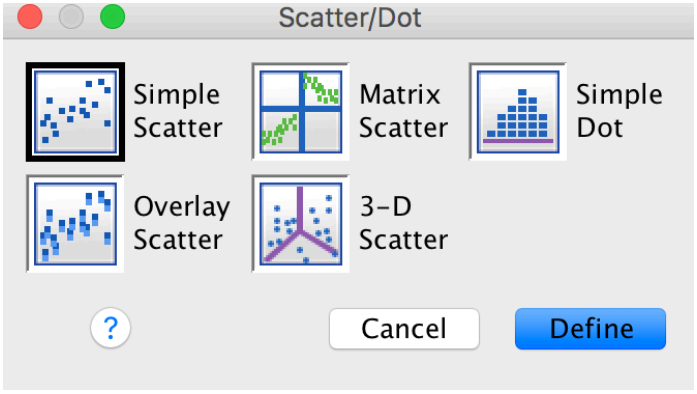


e. Repeat for other variables as needed

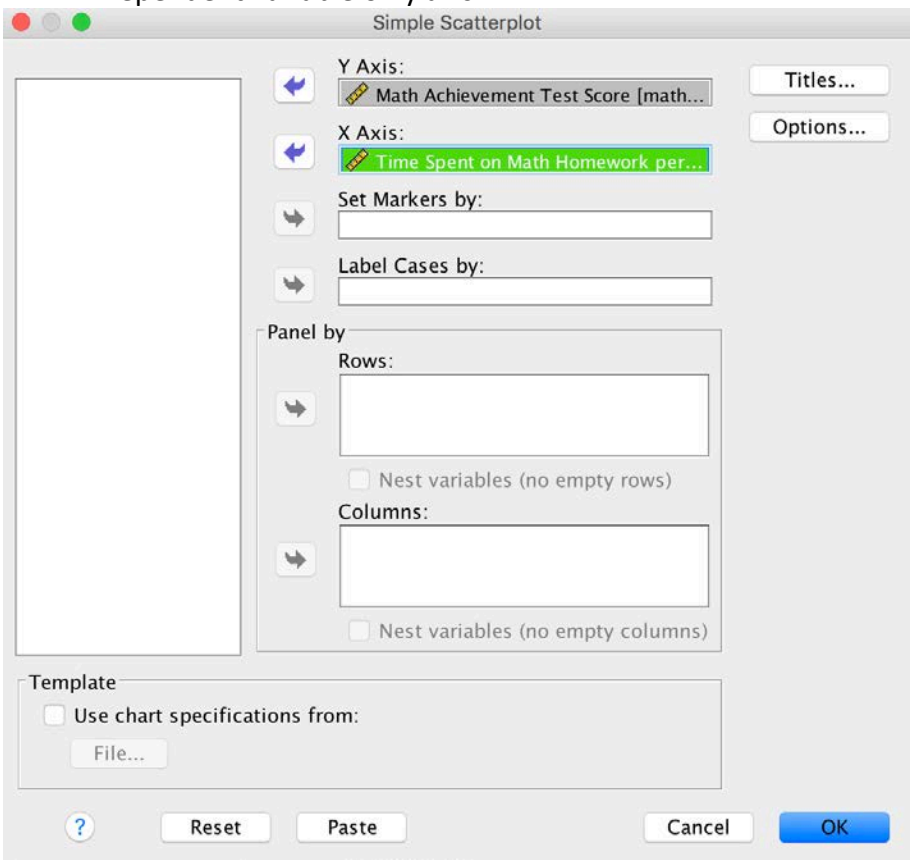
4. Run scatterplot
    a. Go to Graphs > Legacy Dialogs > Scatter/Dot



    b. Select “Simple Scatter” and hit the “Define” button

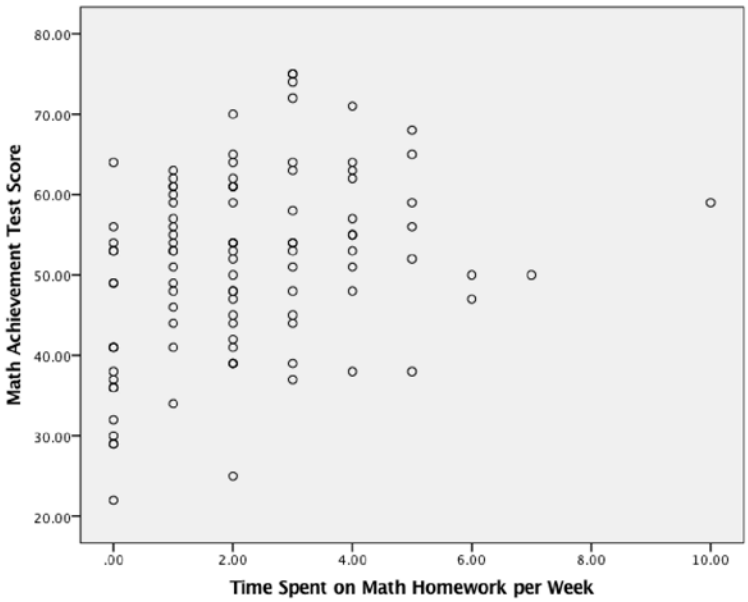


    c. Determine which variable goes on which axis. Move over using the arrow button and hit “ok”
        i. Independent variable on x axis
        ii. Dependent variable on y axis

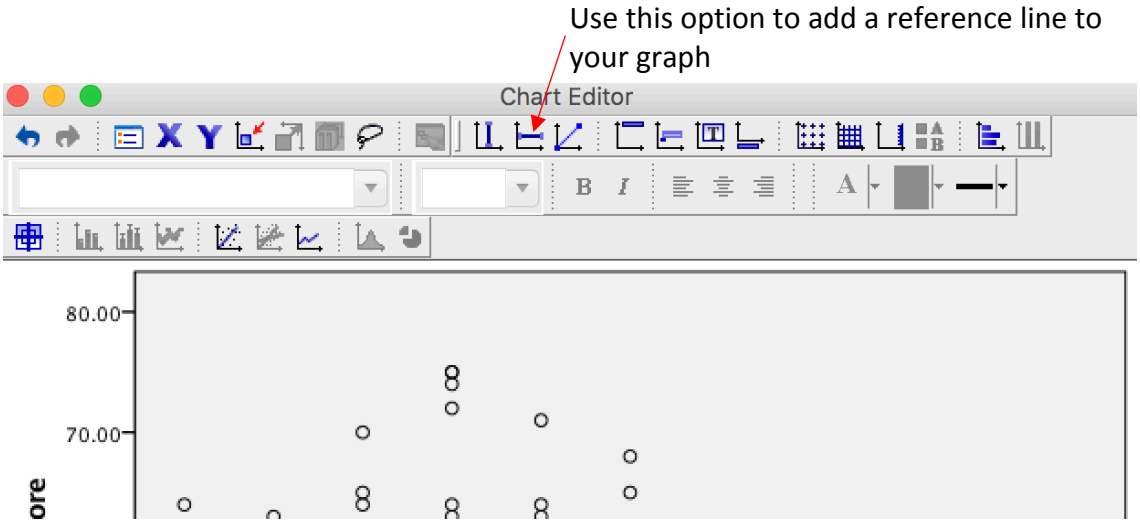


d. Look at scatterplot in the output window

Graph

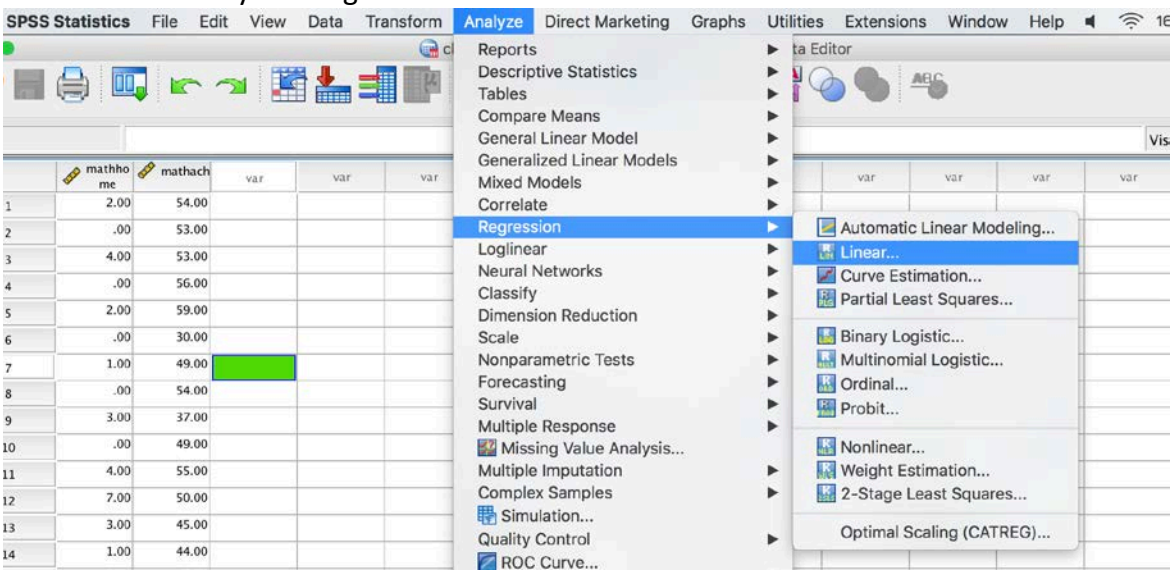


e. You can edit the scatterplot by double clicking on the graph in the output and then using the chart editor window

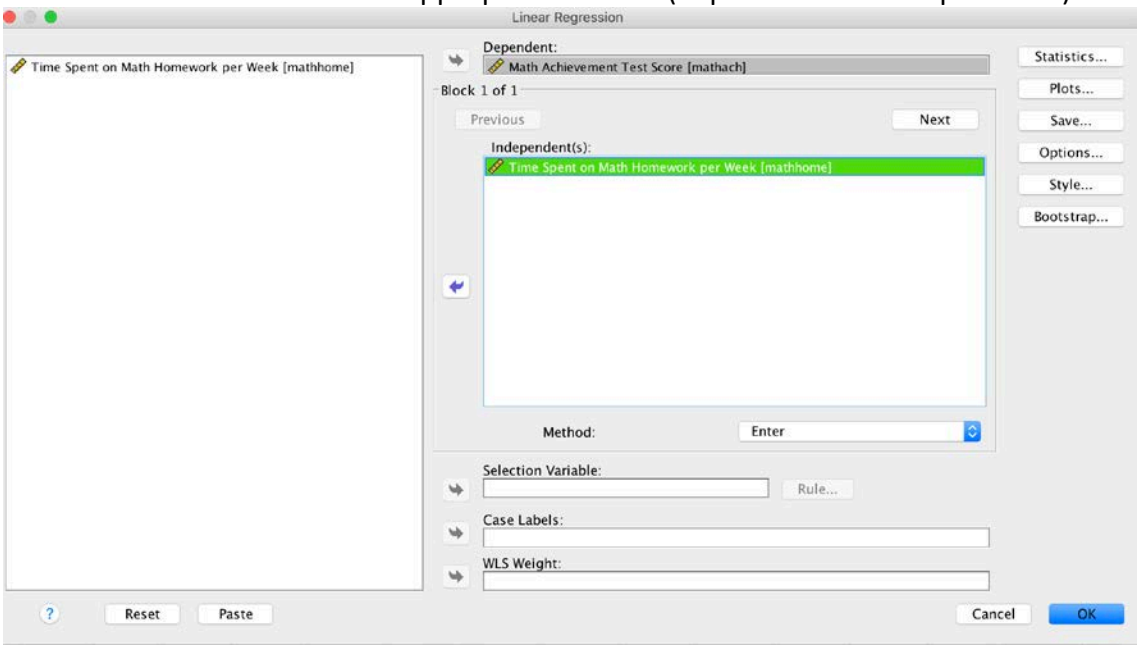


5. Run the regression

   a. Go to Analyze > Regression > Linear



   b. Move variables over to appropriate section (dependent and independents) and hit “ok” button



c. Review the results in the output window

i. This first part simply tells you what variables were actually entered into the regression. This is helpful to review in complex regressions with lots of variables – check here to make sure SPSS correctly ran the model as you entered it.

Regression

Double-click to activate

Variabl Removed[a]

Model	Variables Entered	Variables Removed	Method
1	Time Spent on Math Homework per Week[b]	.	Enter

a. Dependent Variable: Math Achievement Test Score

b. All requested variables entered.

ii. The second part of the output has the model summary and data

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.320[a]	.102	.093	10.74707

a. Predictors: (Constant), Time Spent on Math Homework per Week

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1291.231	1	1291.231	11.180	.001[b]
	Residual	11318.959	98	115.500		
	Total	12610.190	99			

a. Dependent Variable: Math Achievement Test Score

b. Predictors: (Constant), Time Spent on Math Homework per Week

Coefficients[a]

Model		Unstandardized Coefficients B	Unstandardized Coefficients Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	47.032	1.694		27.763	.000
	Time Spent on Math Homework per Week	1.990	.595	.320	3.344	.001

a. Dependent Variable: Math Achievement Test Score