

'Comparing Your Maths Scores' Investigation

A note to teachers:

This simple activity has been designed with the NSW General Maths course in mind.

The activity is a very simple investigation containing one set of data with solutions. However, to maximize student engagement, this activity is best modified by the use of two sets of scores from your own class.

Q4 has only been included to give students practice at drawing graphs on paper. It has no bearing on the investigation.

The solutions included with this investigation are not instructional. If you are new to STAT mode then the document 'Self-Guided_9860_STAT' will be beneficial. This can be found at www.casioed.net.au

NOTE: If you desire the original word document you may request it by emailing casio.edusupport@shiro.com.au.

Comparing Your Maths Scores

Statistics Investigation

Assess 1	Mid Yr Exam
%	%
87	76
73	48
82	79
77	43
54	32
74	47
62	80
82	41
79	39
40	40
43	69
85	76

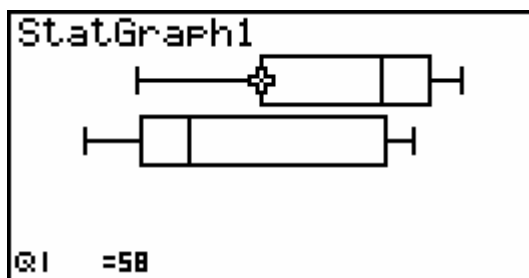
	Assess 1	Exam
Mean		
Median		
Stnd Deviation		
Range		
1st Quartile		
3rd Quartile		
Inter Q Range		

- 1) Complete the table of statistics for Assess 1 and the Exam.
- 2) Write a detailed paragraph accounting for the difference in the statistics.
- 3) Use your Graphics Calculator to draw two box and whisker plots of the assessment data. Show both graphs simultaneously.
- 4) Copy both graphs into the space below. Drawing an accurate scale first.

Comparing Your Maths Scores Statistics Solutions

Assess 1	Exam
%	%
87	76
73	48
82	79
77	43
54	32
74	47
62	80
82	41
79	39
40	40
43	69
85	76

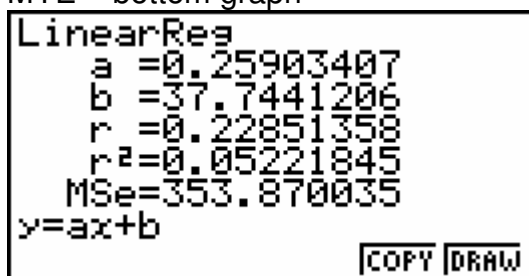
	Assess 1	Exam
Mean	69.8	55.8
Median	75.5	47.5
Std Deviation	15.6	17.6
Range	47	48
1st Quartile	58	40.5
3rd Quartile	82	76
Inter Q Range	24	35.5



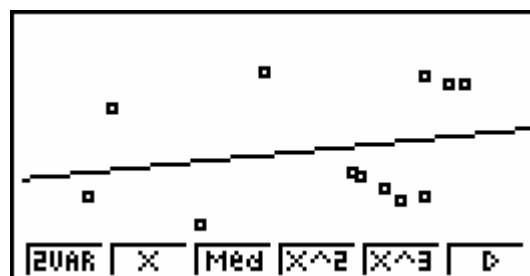
Assess 1 = top graph
MYE = bottom graph



Scatter plot of Assess 1 vs MYE



Correlating Coefficient of the line of Best fit = 0.23 (very little correlation)



Graph of line of best fit