

1. The following are the mathematics test results of two groups of 416 students:

Results are expressed as a percent

Group 01:	40	55	89	89	80	76	78	75	73	72
	71	70	69	66	64	59	58	56	56	78
	74	72	73	75	60					
Group 02:	39	85	47	51	54	83	78	77	75	61
	56	56	55	73	72	72	71	70	69	69
	69	68	67	66	65	63				

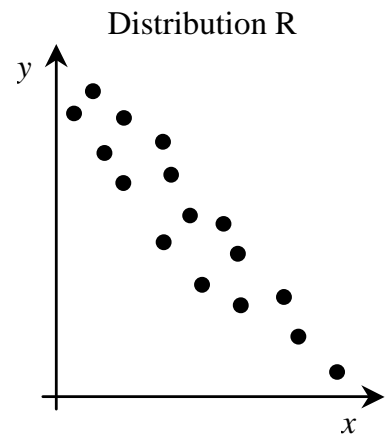
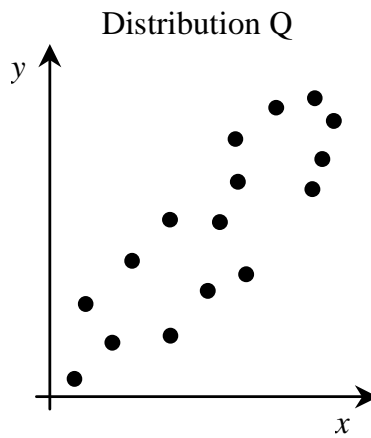
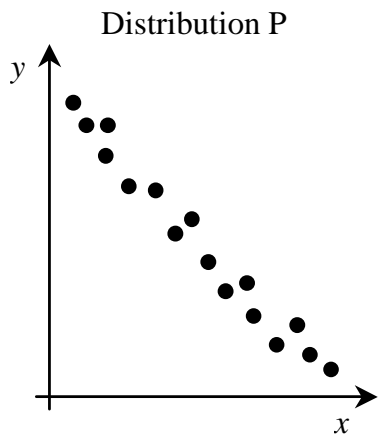
- a) In which group would a student with a result of 78% have a better placement?  
 b) Patrick was in Group 01 and Michael was in Group 02. They both placed in the 85<sup>th</sup> percentile. Who had a higher score?

2. Calculate the mean, median, mode and mean deviation for each of the following:

a. 3, 5, 8, 10, 12

b. 12, 15, 36, 21, 45, 36

3. Calculate the correlation coefficients for the following scatter plots:



4. Given the following data:

x	2	4	5	8	9	11	15	18	20	27
y	40	38	44	27	24	28	21	23	26	18

- a) Calculate the equation of the Mayer Line
- b) Calculate the equation of the Median-Median Line