

Module Results

Part A

The data given on this sheet refers to module results in Pure Mathematics 1 at Anon College. Perform the following tasks by hand (on paper and graph paper).

1. Decide on suitable class intervals and draw a grouped frequency table.
2. Draw a histogram to illustrate the data.
3. Calculate the mean and standard deviation of the data.
4. Draw a cumulative frequency diagram and use it to find the median, upper and lower quartiles.
5. Draw a box plot.
6. Comment on the data with reference to all your diagrams and calculations.

Data

Results for P1

63	0	80	82	68	56	60	32	68	65
40	13	63	83	95	36	13	80	100	92
13	42	44	38	58	30	85	30	0	0
38	50	75	58	3	62	85	70	100	17
7	60	63	72	68	82	68	44	36	63
80	50	83	48	73	54	85	82	38	52
36	63	97	17	36	67	97	73	52	67
50	100	46	0	92	3	62	44	88	40
82	20								

Part B

For this part use the Excel file. It contains the module results for Statistics 1 at Anon College. All of the following tasks are to be performed in Excel.

1. Sort the data in ascending order.
2. Find the median and quartiles. Record your answers in column B.
3. Calculate the mean and standard deviation of the data. **Do not use a calculator – use the spreadsheet.**
4. Save the file and print your results.

Part C

For this part use the data from the Excel file.

1. Copy and paste the Statistics module results into Autograph.
2. Using the same class intervals as you used in Part A, create a histogram. Make sure the axes are correctly labelled and it has a title.
3. Copy and paste this histogram onto a new Word page. Size it to fit.
4. Underneath, compare the shape of this histogram to the one you drew for the Pure Mathematics results.
5. Save and print this new page.

