

University of Central Punjab

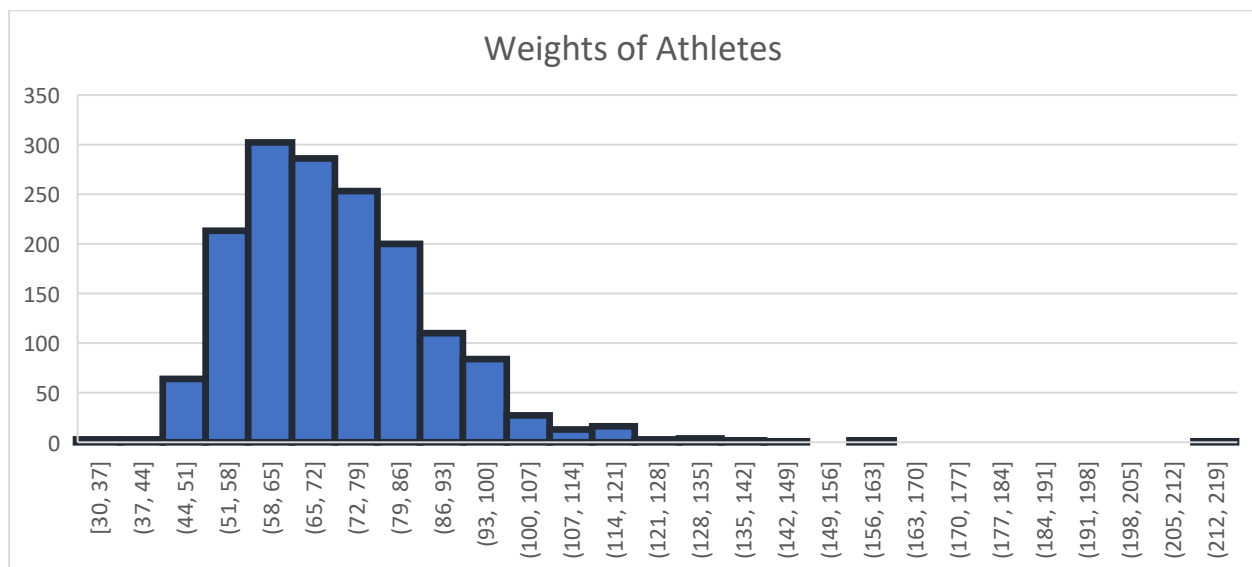
FOIT & CS Assignment 1

Course Title	Probability and Statistics	Course Code	MAT253
Course Instructor		Section	
Time Allowed	1 Week	Total Marks	25
Student Name		Registration No.	

CLO-1: Explain the basic concept of Statistics and Probability, and their practical need to explore data.

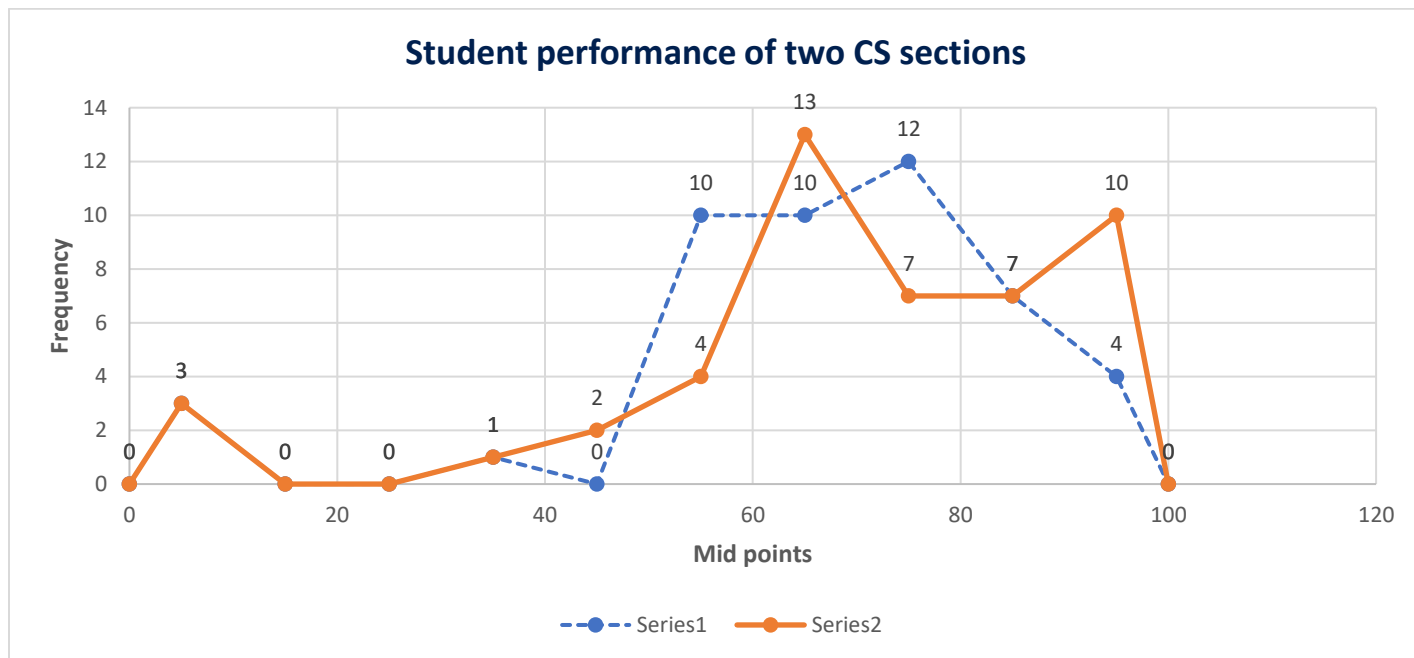
Question # 1: The following Graph is showing the data of athlete's weights (kg) from different countries:

[5]



- Name the graph.
- What do you think about the average weight of athletes?
- Most of the weights exist within what interval?
- What is the estimated sample size used for this data?
- Comment on the shape of distribution.

Question # 2: The following graph represents the student’s performance of CS students in “probability and statistics” for two different sections with same strength: [5]



- Name the graph.
- Write the total count of students for both sections.
- What do you think that which section relatively shows a stable result in this subject?
- What are the estimated minimum and maximum marks of both sections?

Question # 3: [5+2+5+3=15]

The reported high temperatures (in degrees Fahrenheit) for selected world cities on an October day are shown below.

62, 72, 66, 79, 83, 61, 62, 85, 72, 64, 74, 71, 42, 38, 91, 66, 77, 90, 74, 63, 64, 68, 42

- Find mean. Median and mode.
- Which measure of central tendency do you think best describes these data and why?
- Check the data for outliers.
- Make box and whisker plot and discuss the data distribution.