

**Seminar 9**

1. The following are the times (in minutes) required to resolve customer complaints:

8	1	2	4	10	12
7	8	10	10	11	

Find the average time needed to solve a customer complaint.

2. A student receives quiz grades of 70, 65, and 90. The same student earns an 85 on the final examination. If each quiz constitutes 20% of the final grade while the final examination makes up 40%. Find the weighted mean.
3. Frequency tables often have open-ended classes such as the one given below. The table shows that the time spent studying by college students

Hours studying per week	Frequency
0	5
1-5	96
6-10	57
11-15	25
16-20	11
more than 20	6

Calculate the average no. of hours spent in studying by assuming the open-ended class “more than 20” is actually i) 21 - 25; ii) 21 - 30; iii) 21 - 40.

What can you conclude?

4. The MCC Research Company is undertaking a research on the daily expense of secondary students, a sample of 20 students are selected, and their daily expense are recorded as followings:

Daily Expense (in dollars)									
14	11	8	15	6	5	11	10	15	8
20	3	14	10	14	25	15	9	4	28

Find

- Mean
  - Mode
  - Median
  - Midrange
  - First Quartile
  - Second Quartile
  - Third Quartile
  - Midhinge
5. Compare the difference between Midrange and Midhinge.