

Introduction to Mathematical Statistics II
STAT2012A
Tutorial Test 1: 31 August 2022

Time: 40 minutes

Total marks: 25

MEMO

Question 1: (15 marks)

Consider the marks obtained in a test written by STAT2012A students below:

26 30 32 33 33 62 64 65 68 70 35 36 36 36 42 71
75 75 75 75 75 76 77 77 77 78 80 81 81 85 90 90

- a) Using the classifications [1,20], [21,40], [41,60], [61,80], [81,100], construct a frequency table. (5)

Solution:

Class interval	Frequency
[1 - 20]	0
[21 - 40]	9
[41 - 60]	1
[61 - 80]	17
[81 - 100]	5

- b) Calculate the following:

- i) approximate average mark for these students. (2)

Solution: (you were expected to use the frequency table;
key word: approximate)
Midpoints: 10.5; 30.5; 50.5; 70.5; 90.5

$$\bar{x} = \frac{\sum_{i=1}^5 f_i m_i}{\sum_{i=1}^5 f_i} = \frac{(0 \times 10.5) + (9 \times 30.5) + (1 \times 50.5) + (17 \times 70.5) + (5 \times 90.5)}{32} = 61.75$$

- ii) approximate median mark for the students. (2)

Solution:

Position = $\frac{1}{2}(32 + 1) = 16.5$; therefore median class (boundary) = (60.5- 80.5)

$$\bar{x} = 60.5 + (80.5 - 60.5) \left(\frac{16 - 10}{17} \right) = 67.5588$$

Introduction To Mathematical Statistics Answers

Wolfgang Guggemos



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