



March 23 - 27, 2020

TO DO LIST:

Week 3

Measures of Central Tendency of Grouped Data  
Scores of 50 students in Mathematics Exam

I - interval of the scores in the class interval column.

Lower Boundaries – subtract the lowest score in each class interval by 0.5.

Class Mark – Middle score in the class interval.

Less than cumulative frequency – subtract the total frequency to the frequency of the class interval.

Class Interval (Scores)	Frequency	Lower Boundaries (LB)	Less than Cumulative Frequency (< cf)	Class Mark
46 – 50	4		50	
41 – 45	8		46	
36 – 40	11			
31 – 35	9			
26 – 30	12			
21 – 25	6			
<b>i =</b>	<b>Total</b>			

$$\text{Mean} = \frac{\sum Fx}{N}$$

$$\text{Median} = LB + \left[ \frac{\frac{N}{2} - Cf_b}{F_m} \right] i$$

$$\text{Locate Median} = \frac{n}{2}$$

Where;

F = Frequency

X = Class mark [middle number in the class interval]

N = total number of frequency

$\Sigma$  = sum / total

Where

LB = lower boundaries of the median class

$\frac{n}{2}$  = total number of frequency divided by 2.

$Cf_b$  = cumulative frequency before the median class

$F_m$  = frequency of the median class.

i = Class interval

$$\text{Mode} = LB + \left[ \frac{\Delta_1}{\Delta_1 + \Delta_2} \right] i$$

Mode class or Modal Class – it is the highest frequency.

Where

LB = Lower boundaries of the modal class

$\Delta_1$  = the difference between the frequency of the modal class and the frequency before it.

$\Delta_2$  = the difference between the frequency of the modal class and the frequency after it.

March 23 – 27, 2020

In a one whole sheet of intermediate paper, answer the following.

ACTIVITY 1

Complete the table of the scores of 50 students in Mathematics exam.

ACTIVITY 2

Solve for Mean, Median and Mode of the given score