

Assignment 5

Q. In Left & Right Skewed data, what is the relationship between mean, median & mode? Draw the graph to represent the same.

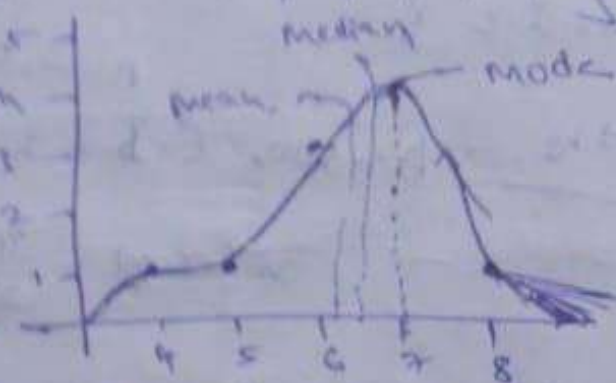
Ans: Left Skewed

Ex - Data set: $\{4, 5, 6, 6, 6, 7, 7, 7, 7, 8\}$

$M = 6.3$

Median = 6.5

Mode = 7



∴ Thumb rule for Left Skewed is

$\text{Mode} > \text{Median} > \text{Mean}$

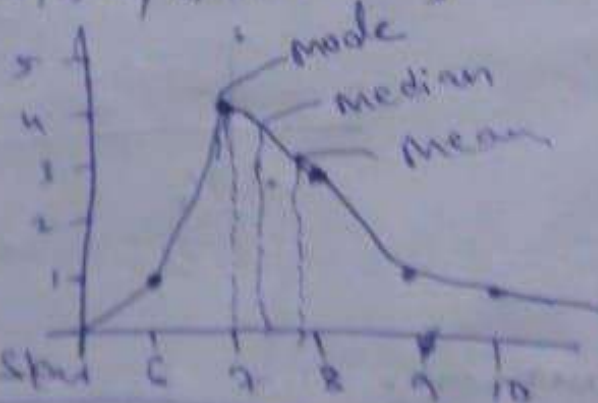
Right Skewed

Ex Data set: $\{6, 7, 7, 7, 7, 8, 8, 8, 9, 10\}$

$M = 7.7$

Median = 7.5

Mode = 7



Thumb rule for right skew

$\text{Mode} < \text{Median} < \text{Mean}$