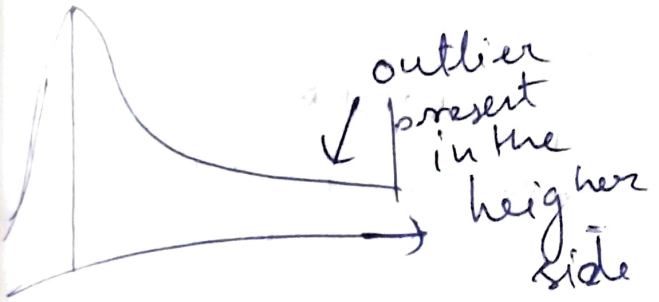
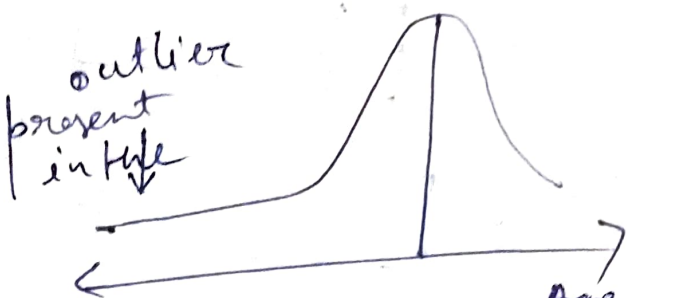
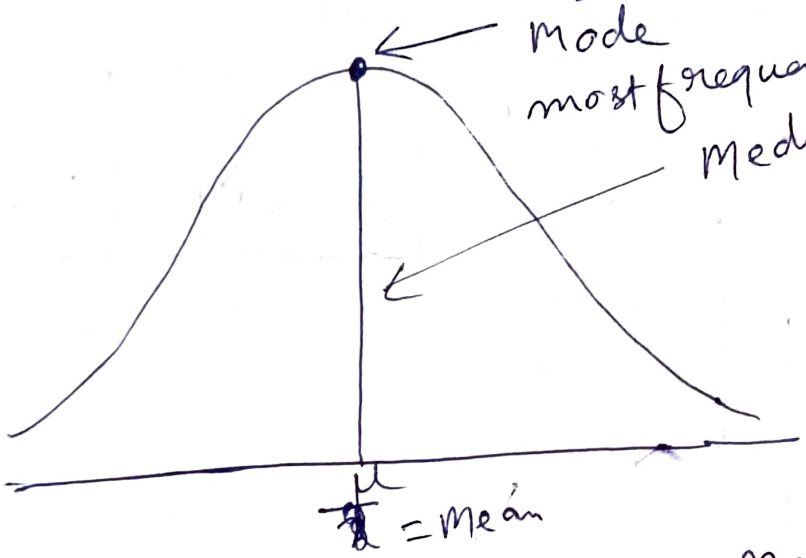
Assignment

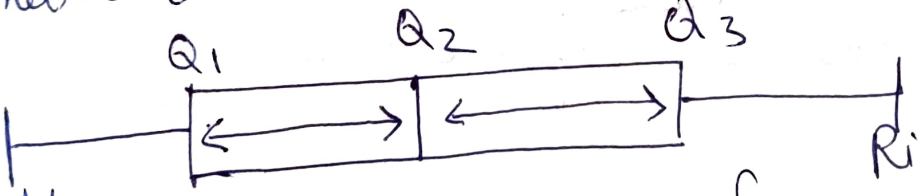
Relationship b/w mean, median mode





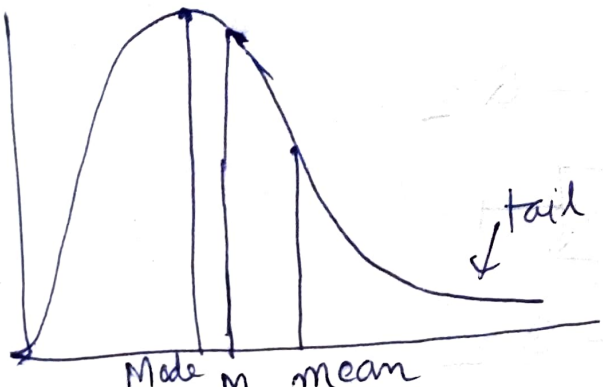


Symetric distribution = Mean = Median = Mode.



$Q_3 - Q_2 = Q_2 - Q_1$ for symetrical distribution.

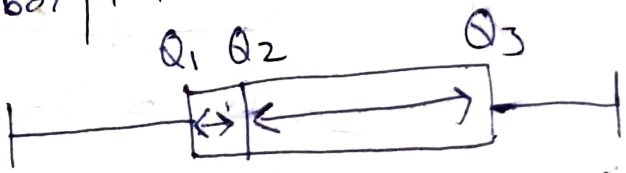
M = median.



skewed to the Right
positive skewed.

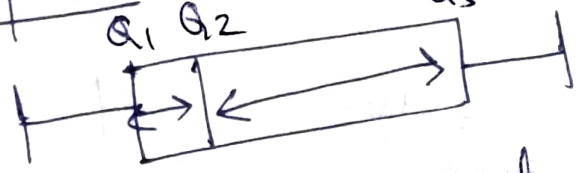
$\bar{x} > M > \text{Mode}$

box plot

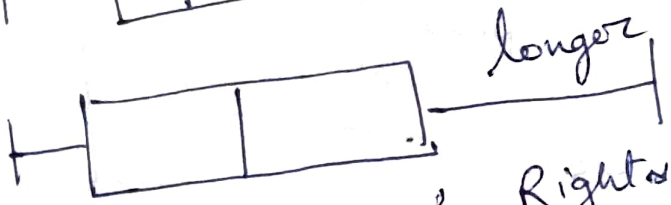


$Q_3 - Q_2 > Q_2 - Q_1$

boxplots

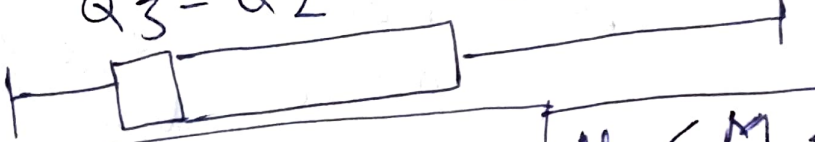
i) 

$Q_3 - Q_2 > Q_2 - Q_1$

ii) 

wiskers is longer in Right.

iii) $Q_3 - Q_2 = Q_2 - Q_1$

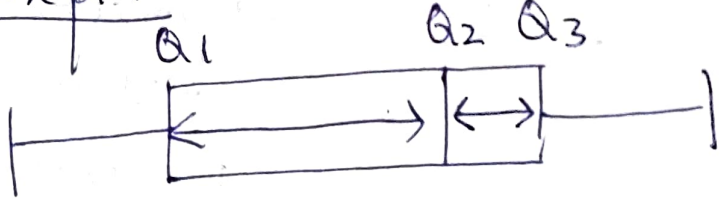


M = median.

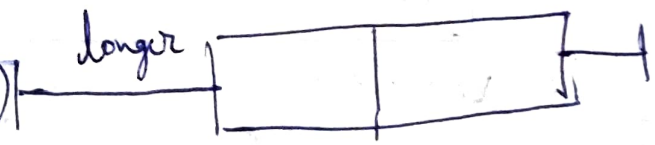
$\mu < M < \text{Mode}$

left skewed / negative skewed.

boxplots

i) 

$Q_2 - Q_1 > Q_3 - Q_2$

ii) 

$Q_2 - Q_1 = Q_3 - Q_2$

iii)