1

* measure of position

1) Quartile

[10,20,30,40,50,60,70,80,90,100]

 $meetan = \frac{50+60}{2} = 55$

 $Q_1 = 30$

Q3 = 80

medran = 55

min = 10

max = 100

(2) Percentile - v V C [2,2,3,4,5,5,5,6,7,8,8,8,9,9,10,11,11 Percentile of 10 position

$$Percentile = \frac{16}{19+1} \times 100$$

$$=\frac{16}{20} \times 100^{5}$$

Case U- 8th

$$= \frac{10}{19+1} \times 100$$

2) Percentile rank -

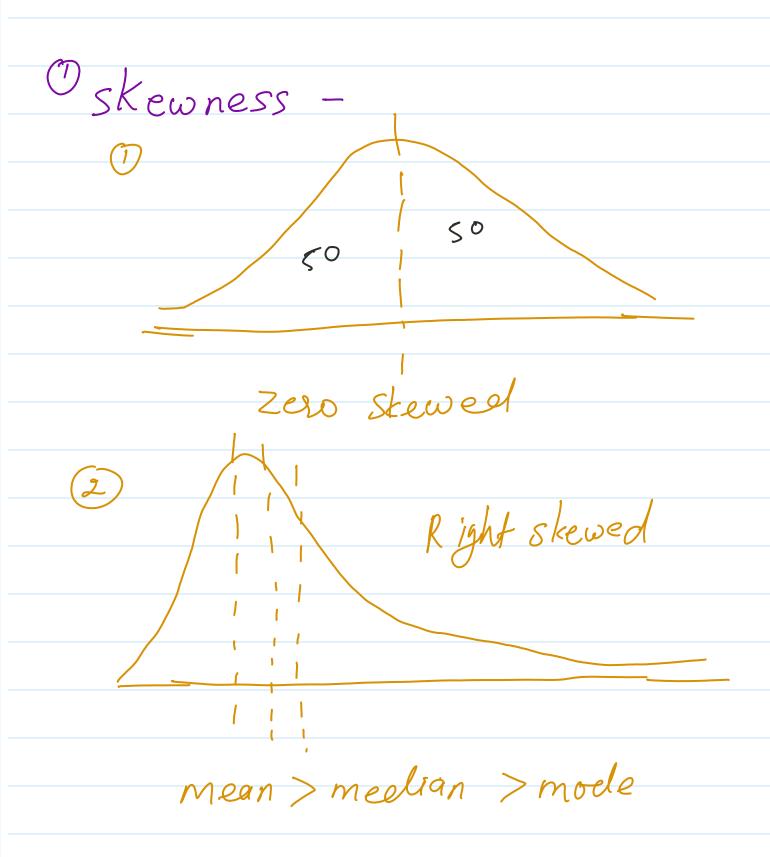
Case-II

$$=\frac{75}{100}$$

3) Interquartile Range-

$$Q_1 = 25./$$

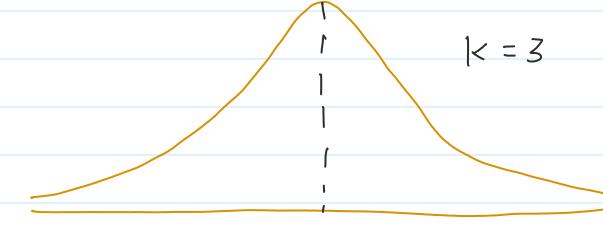
A measure of shape



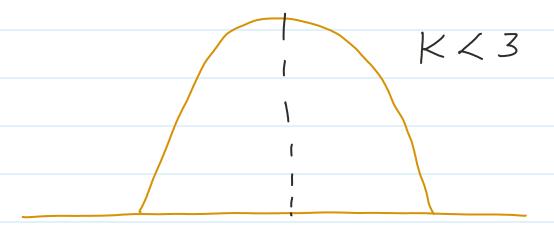


mean < meetran < mode

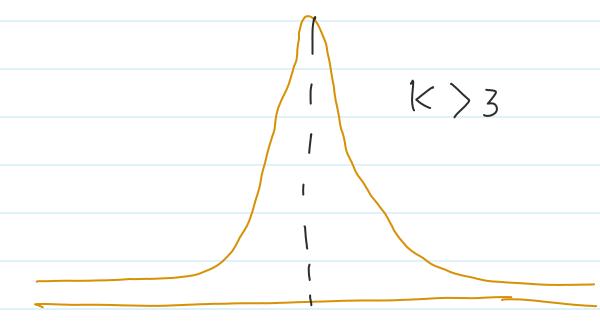
$$K = 3$$



2) platikurtosis -



(3) Lepto kurtosis-



5 number summery

mm

max

02/

Q3

meetan

[2,5,6,3,7,11,(4,7,2,3,4,8,12,29,99]

lower fence / limit

 $Q_1 = \frac{25}{100_4} \times 17 \Rightarrow 4.25$

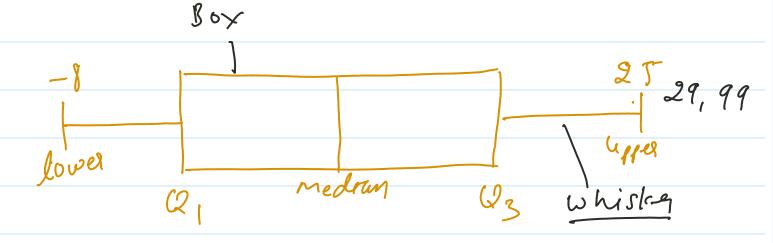
 $Q_3 = \frac{75^3}{1004} \times 17 = > 12.75$

lower limit = Q, -1.5 IQR

$$=4.25-12.75$$

Upper limit = Q3 + 1.5 IOR

$$= 12.75 + 1.5 \times 8.5$$



$$\frac{96}{7} = 13.71$$

$$\frac{33}{7} = 4.71$$

×ı		\times_2	10
		10th	
T		(2+7)	
F	16de= T		
		10th	
T		Graeluale	
T			
—		12 M	
F		Gredute	
		_ /	
		10th	

Variables

X = 4

Type of variable

Quantitetive — Qualifetive — Descrite quan. var. — Nominal qual. var.

-continous quan-var.

- | . |

·var. __ordinal quel·var.

X₁ X₂ X₃ X₄
2 2.1 M 10th
3 3.2 F gradate
4 4.5 T PhD.
6 6.7 M 7 0.1 F =

	, ,
Random Va	riable
$\chi = 4$	
,	
$\times \sim \gamma$	
Type of Ran	dam variable
)	
Descrite Random variable	Continues pandan
	variable
whole number	Delimal,
Independent vonable	
Independent voirable features	-D d
TY V V V	- Dependent variable
1/2/3/4/	Target vayable
oan / / -	

