Solution

number of class intervals, K = 1+3,22 log,(n)

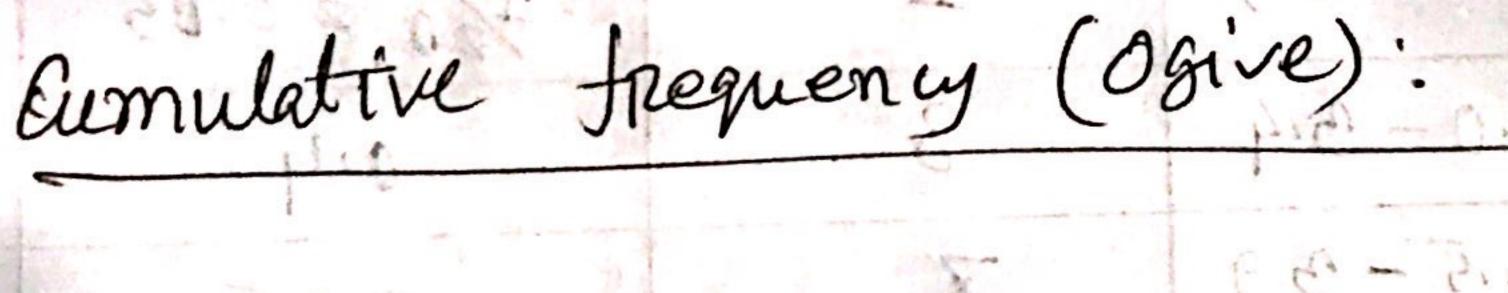
In Frequence Listablion table:

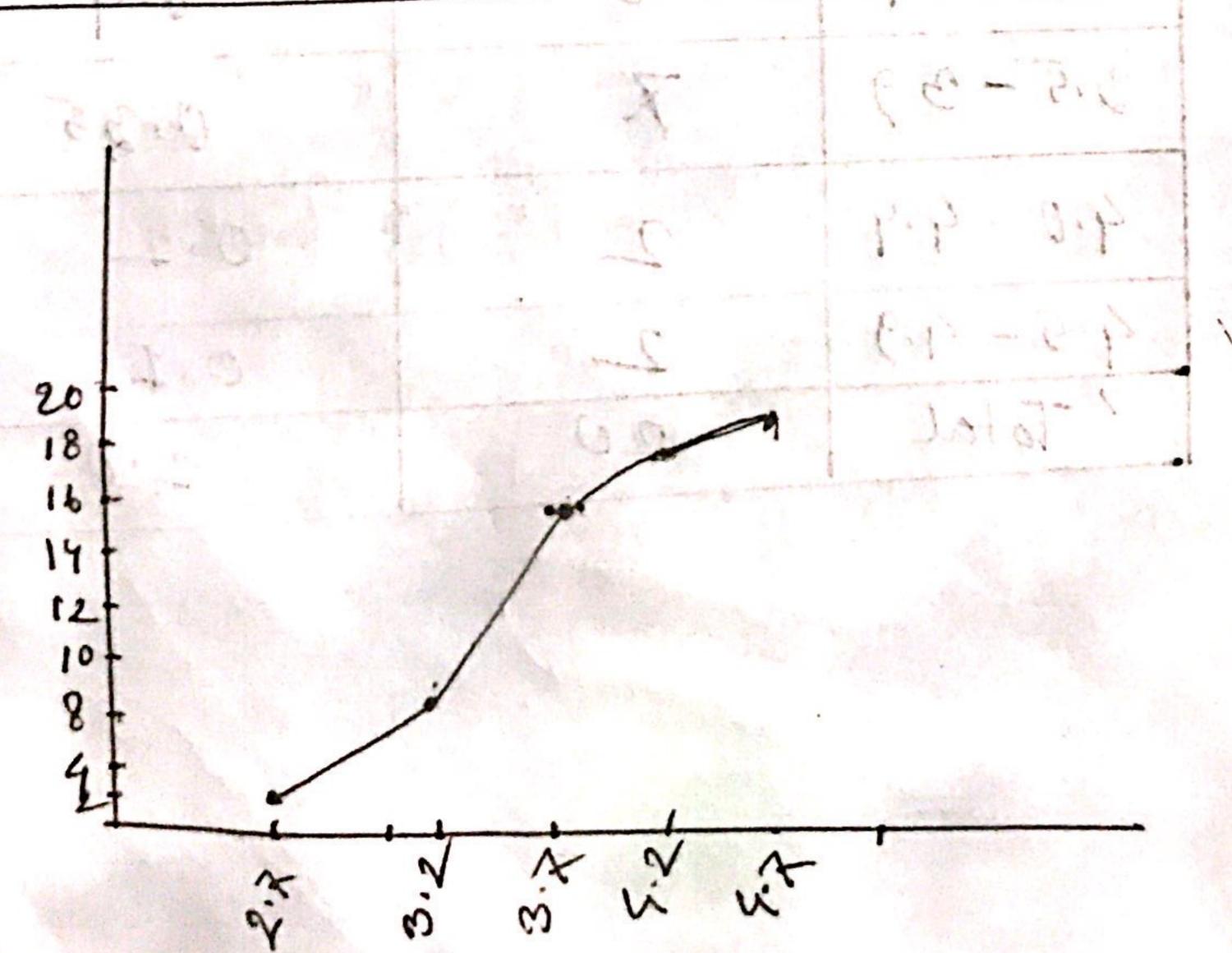
closs	trequency	Relative fron	
2.5- 2.9	1	-1/20 2 0.D5	
3.0-3.4	8	0.4	
3.5-3.9	7	0.35	
4.0 - 4.4	2_	0.1	
4.5 - 4.9	2-	0.1	
Total	. 20	10	



Cumulative frequency table:

Lefe	comulative.	class mid.
Lêfe less than 2.95	1	2.2
Less than 3.45	9	3.2
Less Han 3.95	1.6	3.2
loss than 4.45	118	3114.2
Less than 4.95	20	4.7





less flan 4 years 2 18 2 18 2 100% = 90%. Between 3.25-3.75 2 8 = 30×100 = 40%.

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near.

In a data set, the values have a tondency to cluster arround a certain point. this tendency of clustering the value around the center of series in usually called central tendency.

The common measures of central tendency areArithmetic mean

Hedian

L& Mode.

If Anuthmetic mean 元至<u>新</u> Te 2 Anithmette mean Efre 2 20% sum of frequency and mid values product. J= froquency nz mid value. o svoi voulez number of sample. eny to cluster pround a center thes tenderney of clusterions the value notine centre t in weally contest ten Lancy The common measures THE FALL STREET TYD I THE TAIL

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Sonted List: 10, 37, 43, 45, 45, 50, 51, 52, 58, 105.

here,

numbere of days, n = 10 Sum, Exc = 496

So, mean, $\frac{50}{2} = \frac{496}{10} = 49.6$

An Quartlies:

Bh - Trefnty

Q1 = P28 = 25×10 =250 is not divisible by 100

P1 = RAN 2 250 = 2.5 2 3th value = 43

Q2=950 = 50×10 = 500 divisible by 200

(500) th (500 +1) th value = 5th +6th

Pto

III Standafid Developian = 45+50 2 47.5 23 = 750 2 8th value 2 52 Melle, 1) I = 11 chais - misquant Standard Deviation: > (x-2) 4960.4 2 551:156

Ans to the v. no- 4

Moments: Moments are statistical measures
that describe the shape, center, and
Spread of a probability distribution.

Asymmetry of a probability distribution.

Runtosis; The degree of peakedness of a distribution, usually taken in relation to a nominal distribution is called kuntosis

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The third moment is called skewness, and the fobinth moment is known as kuntusis

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Ams to the g. no- 5

Given that stranger stranger or state descends and and assisted on the contraction of the contracti Et Skewnessi skownessor- 5 Em measure asyminetry of a probability dishible we know that, The Marcholling The War : The Peakers I かがからなっているいかのからからいかの to or mount of stranger is contract 50, mean, 226 De third moment is collect SKEN NEWS Again. 11/2 2 11/2 - 11/2 - 11/2 - 11/2 - 11/2 - 11/2 - 11/2 - 11/2 =) == 16~1 = 15 30, variance, 0= 15