Assignment 1
Plot a histogram, 10,13,18,22,27,32,38,40,45,51,56,57,88,90,92,
10,13,18,22,27,32,38,40,45,51,56,57,88,90,92,
No. of Bins = 5 Bin Size = 20 $94,99$
Bin Size = 20
Range frequency
0-20 3
20-40 40-60 5
80 - 100 5
His to gram:
3 . 4
3 3 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
3 0
20 40 60 80 100
sauge

92:	In a amount dont of CAT exam the occupation
7.0-	In a quant dest of CAT exam, un population Standard demiation is known to be 100. A
	sample of 25 tests taken has a mean of 520.
	construct au 80% cI about the man
DE UE	
	Given $\sigma = 100$ $CI = 80\% = 0.80$
	$n = 25 \qquad \alpha = 1 - cI$
	$\overline{\chi} = 520 \Rightarrow \lambda = 0.20$
	1 ower Bound = point estimate - Margin of error
	= 520 - ZX O
	1 ower Bound = point estimate - Margin of error = 520 - Zx o 2 Jn
	= 520 - Z _{0.10} X. 100
	2
	$= 520 - 1.3 \times 20$
	= 520 - 26 = 494
	unnou Bound - point outimate + margin of
	upper Bound = point estimate + margin ef error
	E20 - 7
	$= 520 + Z \times \sigma$ $= \frac{520 + Z \times \sigma}{2 \cdot \ln}$
	$= 520 + 1.3 \times 20$
	= 520 + 26 = 546
	804.
	494 EUC

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Q4 º-	what is the value of 99 percentile?
	what is the value of 99 percentile? dota: 2,2,3,4,5,5, 6,7,8,8,8,8,8,9,9,9,10,11,11,12
40-034 53	Usuig $n = \frac{P}{100} \times N+1$
	100
	$= 99 \times 20 = 19.8$
	100
	n = 12
	· · · · · · · · · · · · · · · · · · ·
65-	in left and sight skewed data, what is the relationship between mean, median & mode?
	relationship between much, median 2 10000
	Draw the graph to represent the same.
	Tu sught skewed data, the Mod median
	mean is always greater than the median. The reason
	is that the large value of
	the outliers prusent on Right skewed
	the suight. These outliers
	affects the mean to large extent while median
	is not affected by these outliers.
	00
	on we other hand, in left screwed data, the mean
	is always lesser than the median because of the larger values present on the left.
	larger values present on un left.
	Median Mode
	lest skewed! Mean & Median & Mode
	Mean /
Y MARIE S	Right skewed: Mean > Median > Mode
	test stewed