Karan Shah

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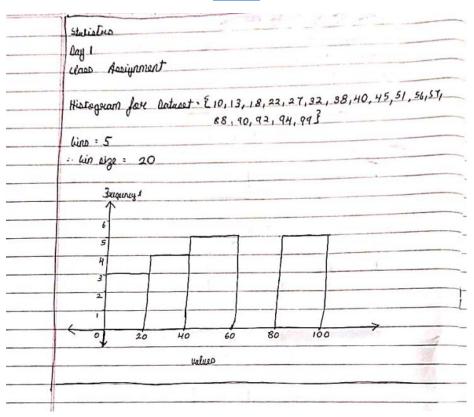
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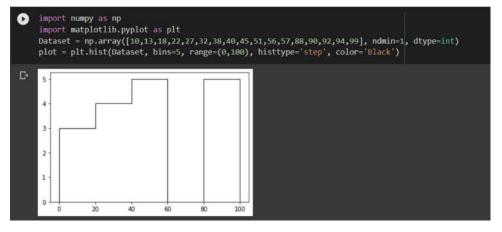
GIT-HUB

Statistics All Assignments

Que 1) Plot a histogram 10, 13, 18, 22, 27, 32, 38, 40, 45, 51, 56, 57, 88, 90, 92, 94, 99.

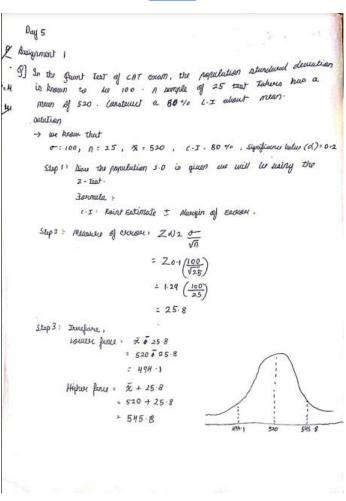
My Solution:





Que 2) In a quant test of the CAT Exam, the population standard deviation is known to be 100. A sample of 25 tests taken has a mean of 520. Construct an 80% CI about the mean.

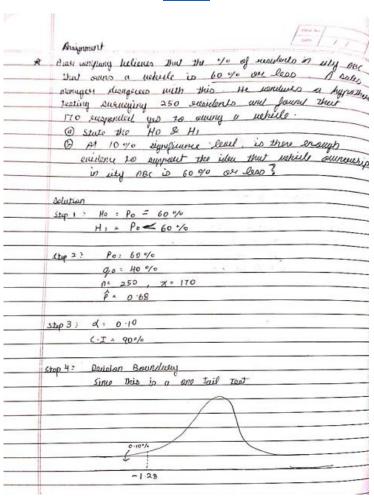
My Solution:



Que 3) A car believes that the percentage of citizens in city ABC that owns a vehicle is 60% or less. A sales manager disagrees with this. He conducted a hypothesis testing surveying 250 residents & found that 170 residents responded yes to owning a vehicle.

- a. State the null & alternate hypothesis.
- b. At a 10% significance level, is there enough evidence to support the idea that vehicle owner in ABC city is 60% or less.

My Solution

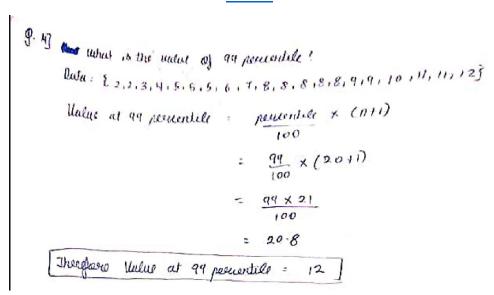


	PPCE TO:
	step 5 : Vainy Journala
	z Test: P-Po
	1 Po 40
_	V
	= 0.68-0.60
	[(0.60×0.40)
-	V 250
_	γ 230
_	
	- 0.08
	0.0304
	2 Feet = 2.589
	Stop6: Since 2.589 > -1.28, we conclude that
	The Null Hypothesis is augited and the
_	% of seculation in city ABC that owns a
	70 of Seculototis 21 day 1/100 200 0000 2
	uehile is 60 %.
	Step 7: Public = Z2-59: 0.99520
	:: Puelo > d Therefore augst Ho

Que 4) What is the value of the 99 percentile?

2,2,3,4,5,5,5,6,7,8,8,8,8,8,9,9,10,11,11,12

My Solution:



Que 5) In left & right-skewed data, what is the relationship between mean, median & mode?

Draw the graph to represent the same.

My Solution:

