Fage No:
Date

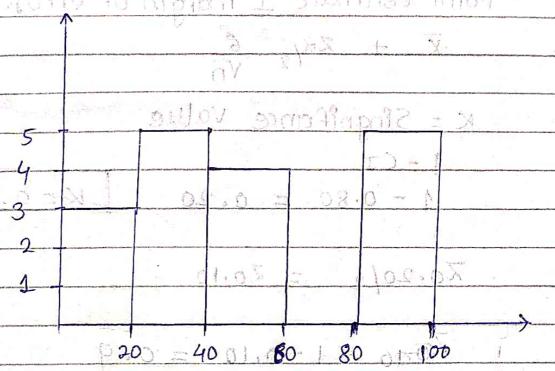
Assignment: 1

bins = 20

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bins = 20



There = 20.20/3 = 1,020

X - ZAM 6 - 600 - 1.09 100

5520 - 1-29 X20

In a quant test of the CAT exam, the popular 9.2 Standard deviation is known to be 100 A sample of 25 tests has 9 mean of 50 construct an 80 %. CI about the mean 6 = 100, n = 25, $\overline{X} = 520$ Point estimate I margin of error · X + ZX/2 6 K = Singnifiance value $4 - 0.80 = 0.20 \quad | K = 0.20 |$ $\frac{70.20}{2} = \frac{70.10}{2}$ Zo+0 = 1-0.10 = 0.9 ZK/2 = Z0.20/2 = 1.29 $\overline{X} - \frac{7}{2} \frac{\chi}{\sqrt{n}} = 520 - 1.29 \frac{100}{\sqrt{25}}$ = 520 - 1.29 X20

= 520 - 2518

= 494.2

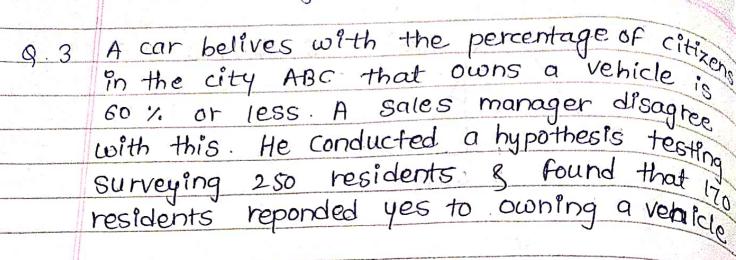
 $\overline{X} + \overline{X} \times /_2 \times \overline{V} = 520 + 1.29 \times 100 \times 100$

= 520 + 1.29 X20

= 545.8

Assignement: 1

Pope No.



a) State the null & alternate hypothesis

b) At a 10% significance level is, is there enough evidence to support the idea that vehicle owner in ABC city is 60%, or less

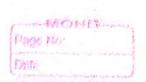
Ho: Po < 60 1/ = Ho: Po < 0.60 H1: Po > 0.60

n = 250 $\chi = 170$ $\hat{p} = \frac{\chi}{2} = 170$ 0.68

Po=1-90 7 90=1-Po=1-0.60

90=0.40/ P=0.68

2) CI = 0.90X = 0.10



and the state of t	
0.1-3	z-test = p-90 - 0.68 - 0.60
	Po 90 0.60 x 0.40
1. C. 8	18888 V. D. 250
V	01,11,01,0
	Z = 2.58
1	Land PP - N PP 10 slave offeren
	(10)
1	I in the
	6 1.645. 2.38
4	Po 70.60
= = A = =	2.58 70.68
	gato perceptile value is us
ng gant Lyggers daily had benedit to the constitution of the const	conclusion: Reject the null hypothesis
4	

9. What is the value of the 99th percentile

2,2,3,4,5,5,5,6,7,8,8,8,8,8,9

percentile rank of 99 1/2 = 99 (20+1)

= 99 ×21

= 20.79

agth percentile value is 12

Assignement

Page No:

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CFT	-60	1 A 2 15 - Crost nive by lates / south a give
	- 91y	el-2007 so lead to turso stational to
(-)3	1.9	10 (200 11 14 1has a + 50 or / 10 1
i i	<u> </u>	19- 9/1 MUX R - TO to +057-19 69 10 10 10
		Right skewed distri
14		inedication has a mean of the
N.	21-	Mean > Median > mode Mean < median < mode
7	5	
		08 301 7100
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