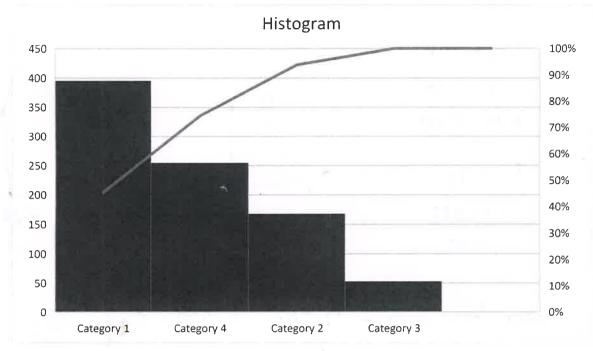
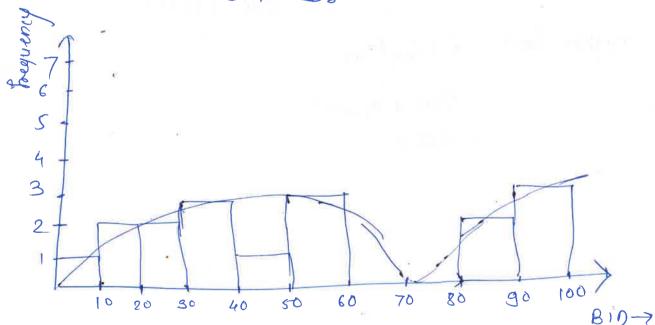
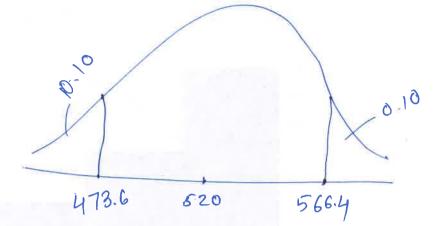
1. Plot a histogram, 10,13,18,22,27,32,38,40,45,51,56,57,88,90,92,94,99



Let consider. Bin Size = 20 Bin = 510

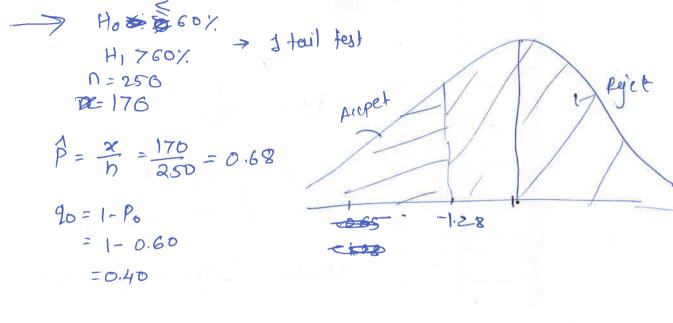


2. In a quant test of the CAT Exam, the population standard deviation is known to be 100, A sample of 25 tests taken has a mean of 520. Construct an 80% CI about the mean.



lower fence =
$$\bar{\chi} - \frac{7}{4/2} \sqrt{n} = 520 - Z_{\frac{0.00}{2}} \frac{100}{\sqrt{2}}$$

- 3. A car believes that the percentage of citizens in city that owns a vehicle is 60% or less. A sales manger disagrees with this. He conducted a hypothesis testing surveying 250 residents and found that 170 residents responded yes to owning a vehicle.
 - i. State the null & alternate hypothesis
 - ii. At a 10% significance level, is there enough evidence to support the idea that vehicle owner in ABC city is 60% or less.



Ziesi =
$$\frac{\mathring{P} - P_0}{V}$$
 = $\frac{0.68 - 0.60}{\sqrt{0.60 \times 0.40}}$ = $\frac{0.08}{0.03098}$ = 0.03098

4. What is the value of the 99 percentiles? 2,2,3,4,5,5,5,6,7,8,8,8,8,9,9,10,11,11,12

1						
B	2 • 11 ×	✓ Æ =PER	CENTILE.INC(A2:	A21,0.99)		
d	A	В	c	D		
1	Data set	99th percent	ile			
2	2	11.81				
3	2					
4	3					
5	4					
6	5					
7	5					
8	5		39 % =	X		
9	6		19 /8 =			
10	7			20		
11	8					
12	8					
13	8		21 -	0.90	120	
14	8				x20 index	
15	• 8			10 3		
16	9		=	19.8	index	
17	9				1119	
18	10					
19	11	190	index =	11+12	03	
20	11	17.8	index =		= 23	= 11.5
21	12	4		2	2_	• •

