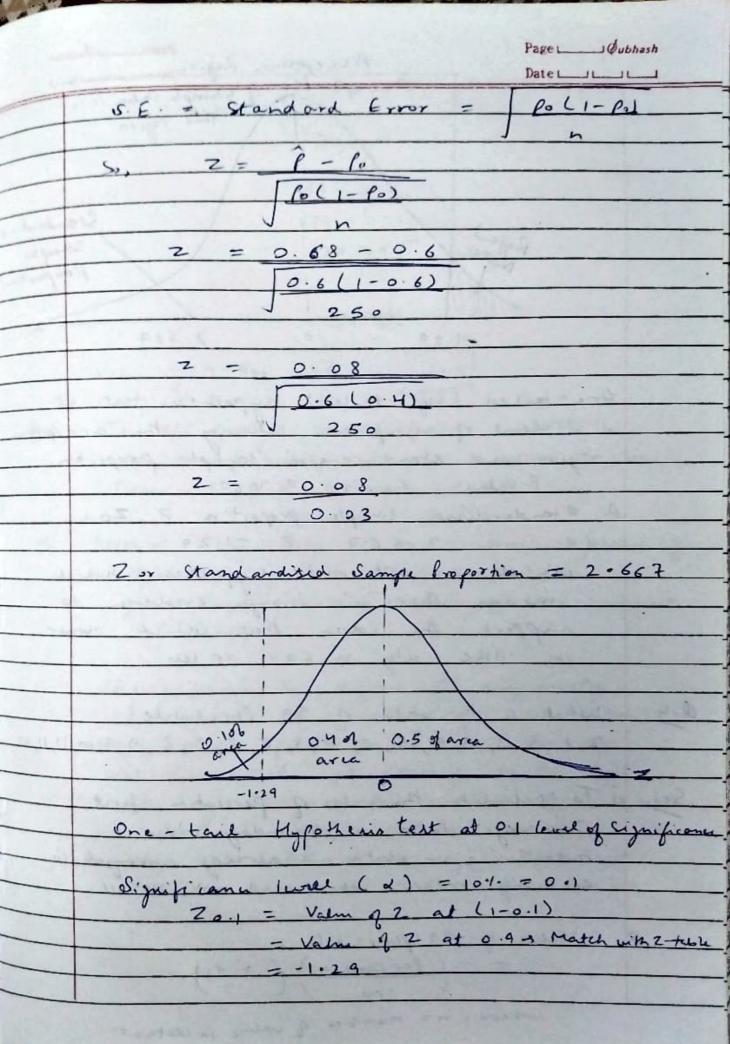


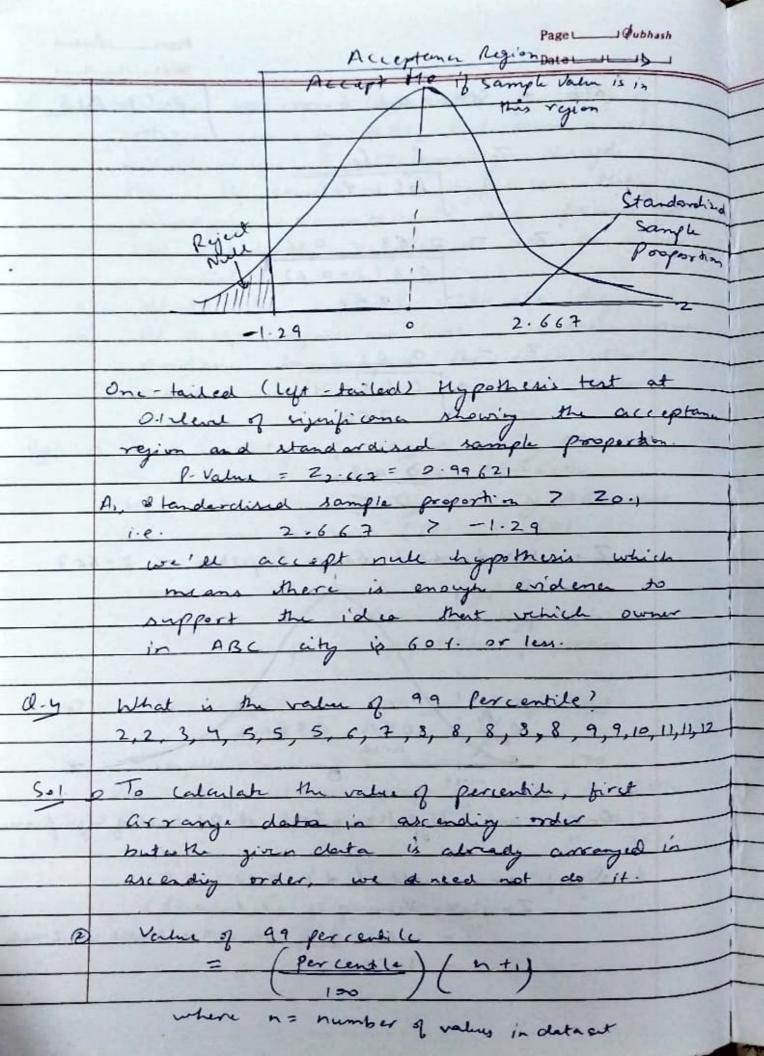
As, population standard denation is given we will apply z-test. Parameter for coppidence Interval = Point Estimate & Maryin of Error. Parameter = = = = = Zd/2 (5) d = Significance Vorbus
= 1- C. I.
= 1-801.
= 201. or 02 [arameter - n + Z 4/2 (5) $= 520 \pm 20.2/2 \left(\frac{6}{17} \right)$ $= 520 \pm 20.1 \left(100 \right) \left(\sqrt{525} \right)$ = 520 ± 20.1 (100) = 520 ± 20, (20) We'll match the value of (1-0.1) i.e. 0.9 from 2-table = [1-3:9] For confidence Interval, We need to find Lower fence & Higher fence

-	
0	Lower fence - Point Estimate - Maryin of From
300	In the character of the first of the same
10.10	$= - \frac{1}{\pi} - \frac{2d}{2} \left(\frac{6}{5r} \right)$
	57)
1	= 520 - 20.1 (100)
111	(525)
0	= 520 - 1.39(20)
	= 520 - 27.8
	= 492-2
1	
-	14:4
(3	Higher fence = $\bar{x} + 24/2 \left(\frac{6}{5n}\right)$
	= 520 + 700/1 (100)
	$= 520 + 20.2/2 \left(\frac{100}{525} \right)$
A	= 520 + Zo., (100) 5
	5
	= 520 + 1.39 (20)
	= 520 + 27-8
	64.2
	T- of 0.8
	851. C. J. or 0.8
	Auest Pull
	X
	region Null
178	pyrit X
1	With X
	492.2 Mean 547.8
2/4/17	
	Contract to San and Assessed 1
	Normal Distribution
	Probability Pensity Function

A car believes that the percentage of citizens in city ARC that owns a vihick is 601 or less. A sales manager discycer wats this. He conducted a hypothesis terring surveying 250 residents and found that a vehicle. State he well afternate hypothese At a 18-1. Significance level, in there enough evidence to support the sides that webich owner in ABC city is 60%. or law. Sol. of Ho: Percentage of citizens in city ARC Mat M, & fercent ye of citizens in city ARC that Ma = Null Hypothesia

M, = Alternate Hypothesis po = population proportion One - Tail 2- test for proportions: Sample size (n) = 250, n = 170 Value of population proportion (Po) = 60%. The sample proportion (P) = 2 = 170 Calculation of 2- Statistics: 7 = 1 - 10



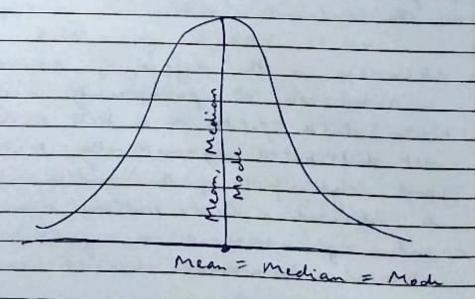


99 percent le = (99 x (20+1)) = (20.79) the Varlan $\frac{11+12}{2} = \frac{23}{2} = \frac{11-5}{2}$ Value of 99 Percantile = [11.5] In left & right skewed data, what is the relationship between mean, median & mode? Draw the graph to represent the same. Normal Pistoibution is a continuous probability distribution wherein values like in a symmetrical fashion mostly situated around skewness is the dyrae of asymmetry When data points on a bill curre are not distributed symmetrically to the left and right adus of the median, the bell curves is skewed Distribution can be position and right-skewed ox nightir and leftskewed. A normal chistor bution exhibite zero skeurnen.

Negation or left - showed reffers to a left wide left wide of the chatribution. Most values are found on the right wide of the mean. In regative distribution of data, the mean is less than the median which is often less than the median which is often less than the median.

Light - showed or positive distribution means its tail is more pronounced on the right side than on left. Most values are found on the left side of the mean:

In position distribution of data, the mean is often more than median which is more than mode i.e. Mean > Median 7 Medi



Normal Distribution