5 min

Probability and probability Distributions.
Contrar dende

1 Descriptive

1 Infoential Hypothesis Testing.

Notes population men = SM (sample) is mostly Tuessect.

bu = 8W X

PM = SM + Mongin of Con be Correct.

\* Always to keep Mu, of Sample 2000 at 100st 200 00

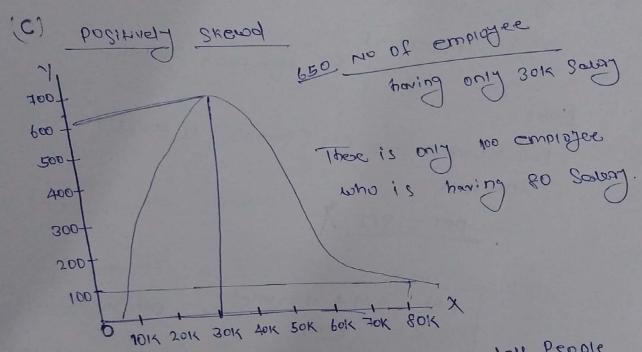
\* According to Central limit theorem ouch Samples must have 30 data points.

Continuous data Col

homeiod home de aimal

Kde - Kernel density Estimate.

Tile Annu Graby 1) bouthing at Bight. Ann

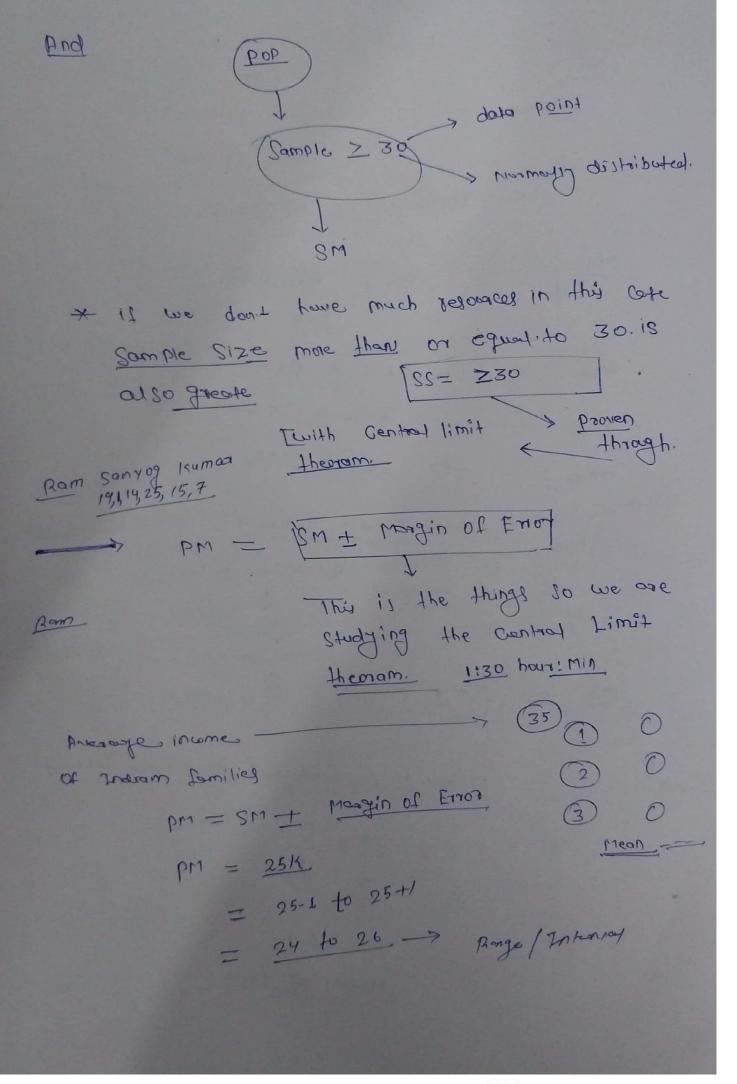


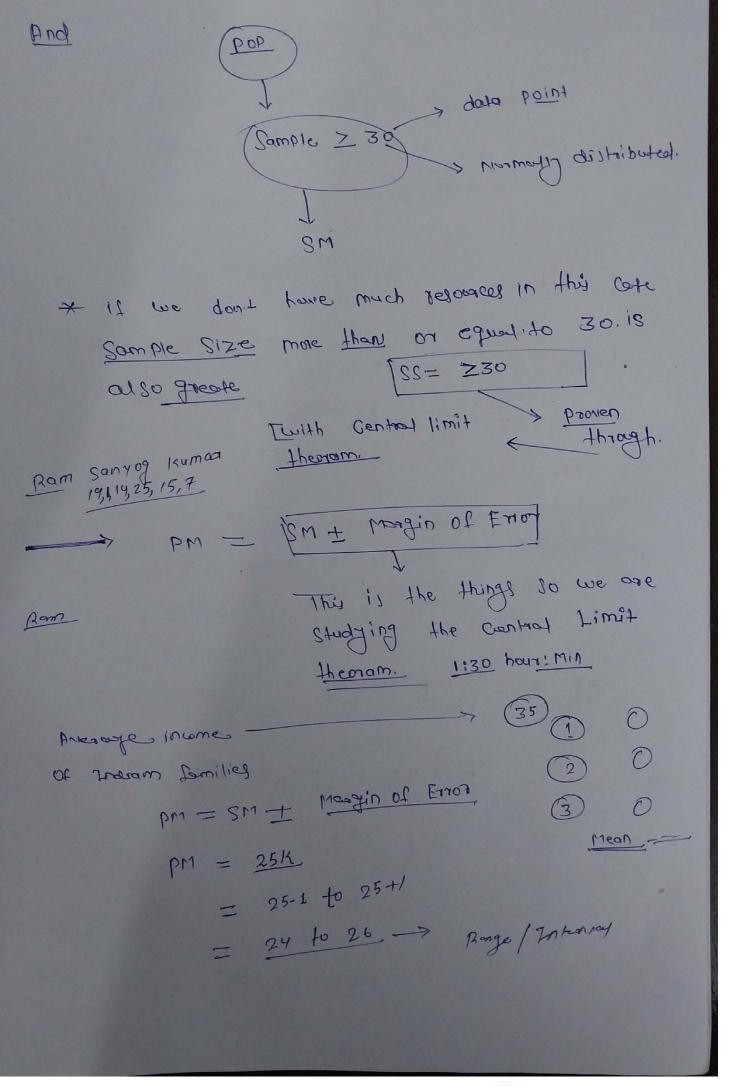
So, Analysis of graph toll there very let People who is goothing test sower & maximum people are Jesting Less Salery.

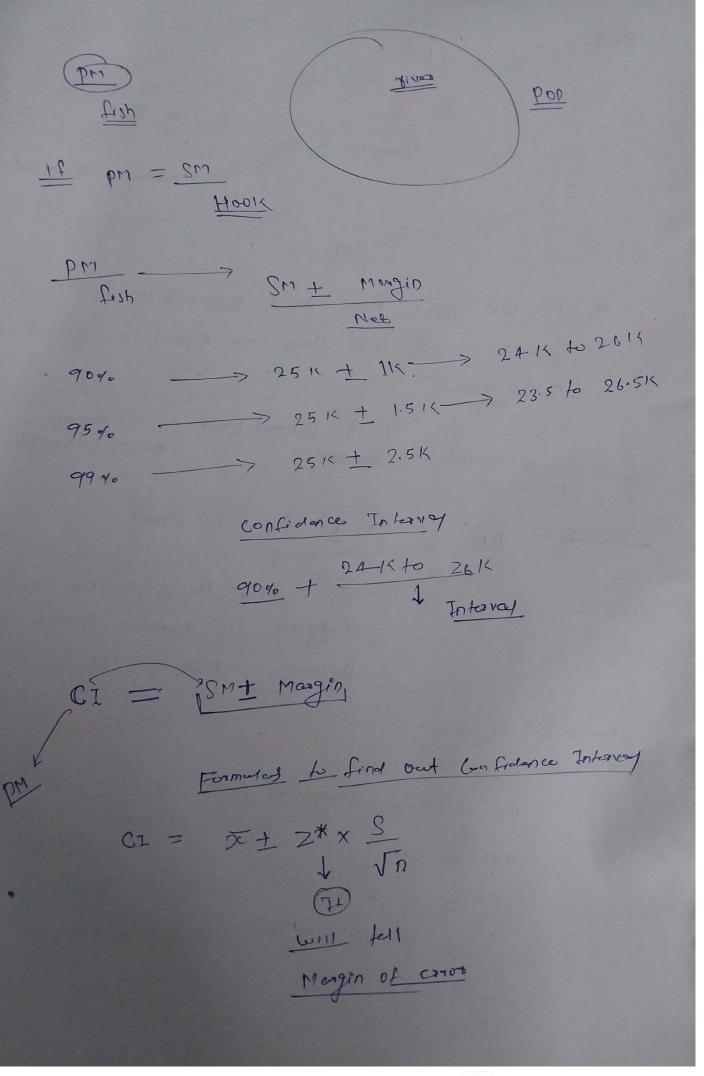
So, the graph is regarively skewd.

either Morman / NO Skeed

The bigger the Sample is, the hetter it is for



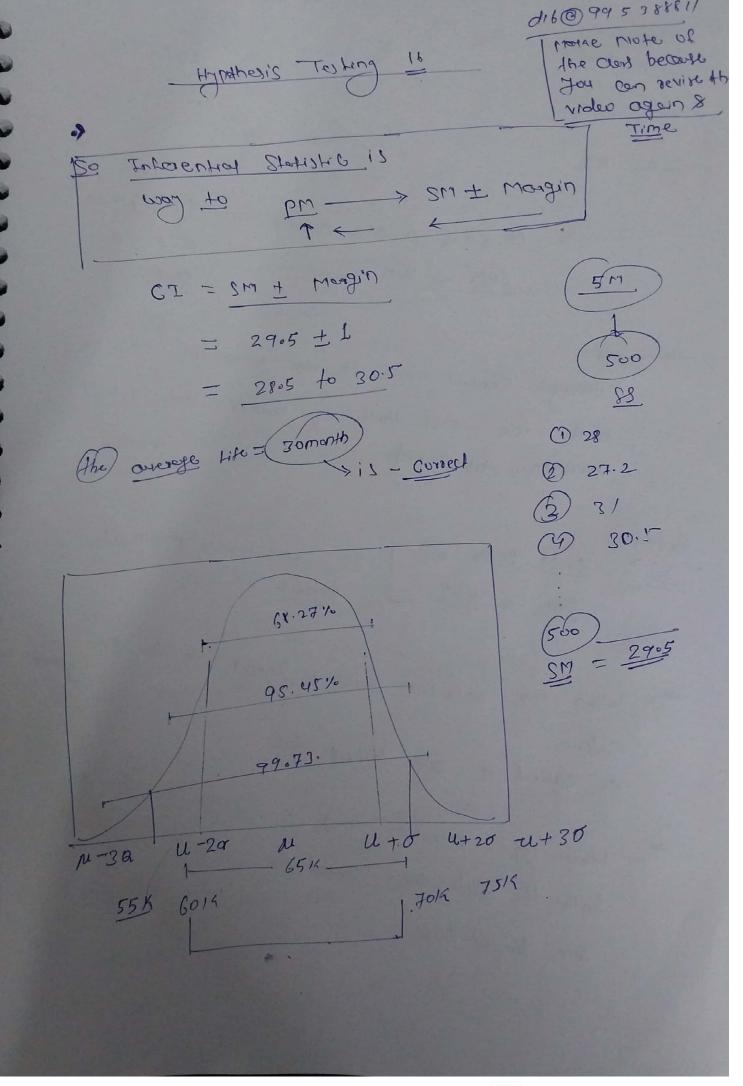




JE: Sample Mean S: Standard deviation of the Sample. 10: Sample Size Z\*: Z-Score for a Certain Confidence level. | confidence level 1.96 2.58 Estimate whether the mean lead content in maggi Problem Business packets is within the allowed range on not? Allowed range = 2.5 ppm (part pra million) Lets toure noutres (maggi packet) S = 0.3 ppm (2) 2.43 ppm 1 2.37 Ppm D 2.21 pm (160) 2-28 ppm -7 =2.23 pm

1:44:01

CI = 
$$\frac{1}{2} \pm \frac{1}{2} \pm$$



65K-5K 6019 M + 1 X SD > 68.27% peoples coming 15 + 5K 6019 - 7019 Saway. 7015 Through Central (imit theorem when my SSZ30 and we plot there 30 values then I will Darwoni gizzipared. DOM DOM 30 J So Dobration wood 17 SM = 31.8 Consect when my sejection level 1) going to be one We called it one toiled test. \* When my rejection level is going to be so both the side we caused it two failed testo

-x Rejection orea should be of 5% of intere orea. Z = Standard Score DC = Opserval vone a = Standard geniation of sample MMI PAD. COUT; => <=>>= Alternate HJP. Co; 7,7, < Mail PAB <= Alt > Mars: - Don oim is always to reject the new hypothesis. > try to the reject the null hypothusis through Some test. Sample dola collection

( SM VS PM (with meagen) (B) it DW? 5- some com into sesection region. (population mon claim is rejected) or Novil by pothesis will be resected A Almass Gu with (old) Region Story (Critical value) > SM > SM Z value > Critical hames ' Guittent some AZ Z Lame => then deciding we are releating the news hypothesis or not \* muter significate Leave gives by 5% rejection caso. \* Motes: - when our Pr value is less than the Significant value means 1.5 or 0.05 then only we can reject the Mull hypothesis. Z- test P- value (0.03)

Have it mean 97% proof is against the null hypotheir and 3.10 in Lanova of num pytheis.

We can reject the null hypothesis when we have And the proof against the null hypothesis, and it should be motor [1, ] becentage.

> 2000 bed of Abotheris testing:-

1.) BPS

2) NH 8 AH

3 Sample data > Hyp test.

(4) Sample dates -> Hypothesis Test.

(2) broot adainst NH in the town of b-name

(b) we should use the p-value to make the final decision.

1) if the p-value is 4 SL (5%)
ha alpha

Then the proof in fevour of NH B -> Beta is too locak 8 the proof against NH is is too strong. So we can reject the new hypo \_ thesis

P-value & (0.05) we fail to reject NH

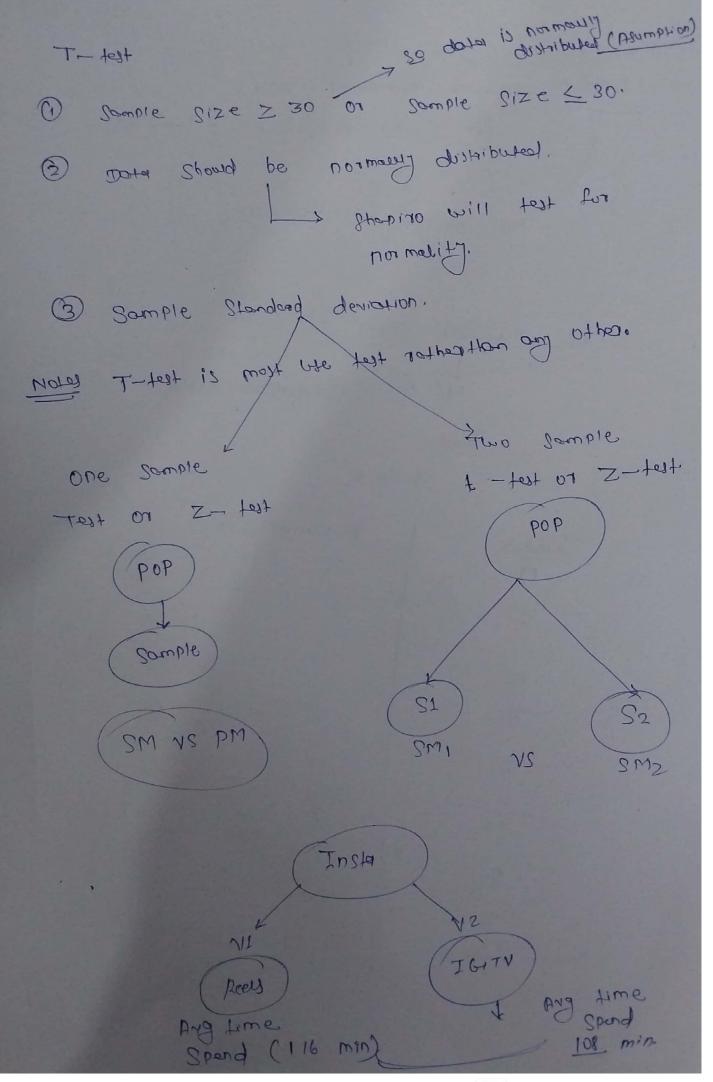
In the Series of NIH

Series of NIH

Thesis.

Z- fest (Agumphians)

- 1) Sample Size Z 30
- (5) Data 2 pond pe hormally gistalported
- boboration Standard Devication worst pe Ziven 0 to US.
- (4) Sample Should be randomly Collected.
- for 2 Theoring this the date is normally distributed or not ploting will not help. So to world this me will like another test which > Shapino will test.



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> Numerical Data ANOVA for 3 or more than 3 samples. traffit of Noviences Chi- Squered Test Of Ind. tuse on Cotiganical Dotal Suppose Stor bucks pretaince. Georges M C C F C T

Take help of Shikkon Example of ANOVA Siz phoma 40 puople 40 BOOK to DS in Shikhus Sio, Brithub.

Stotistical thinking for programmes.