

so a Quart test of CAT coam, the population standard deviation is known to be 100. A sample of 25 test takens has a mean of 500. Gastruct a 80° la G. I. about mean? 00 = 100 Ans: 7=25 死= 520 X= 1- CI = 240 5 =) 520 = 20.1 + 20 => 520 ± 1.28 x 20 =) 494.4 lower 545-6

Classmate

Date \_\_\_\_\_\_\_

A con company believes that the

percentage of residents in city ABG that

cours a vehicle is Go'b on less. A solo

manager disagrees with this. He conducts

a hypothesis testing surveying sso resident

and jound that 176 responded yes to

coning a vehicle.

1) Stake the null and attendate hypothesis

u) At 10 6 significance week, is there

enough evidence to support the idea

that vehicle ownership in city ABG

is bo'b on loss.

Ins:- 40: p < 60%

H1: p> 60%

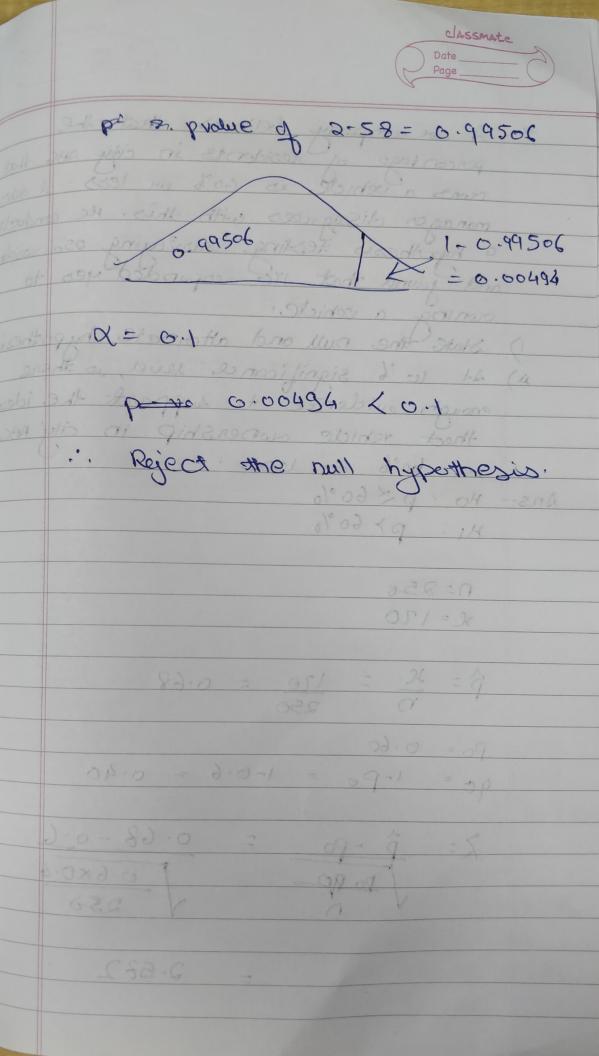
n= 25e 2=170

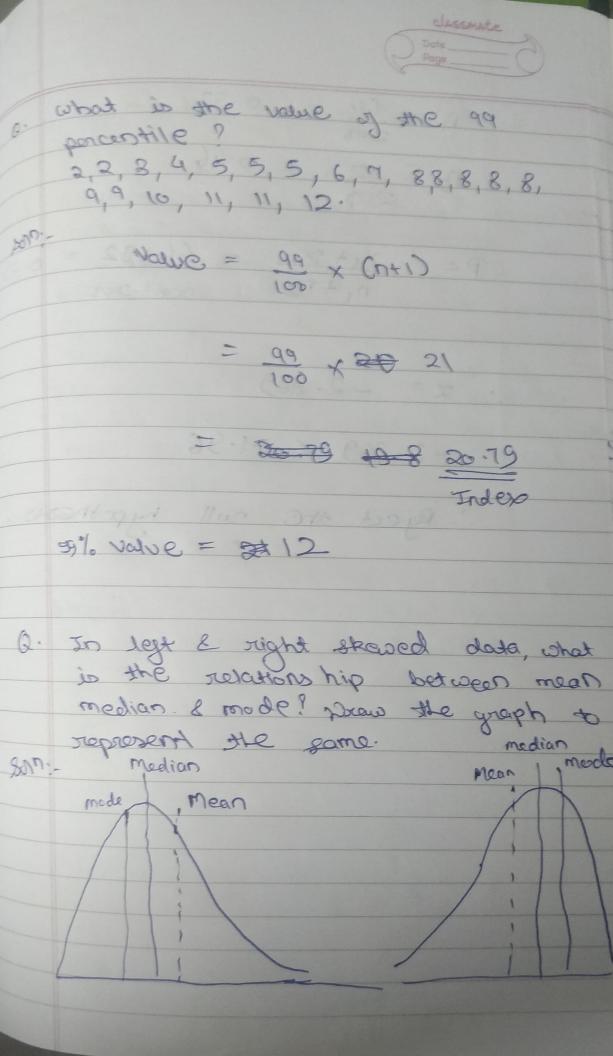
 $p = \frac{10}{50} = 0.68$ 

Po= 0.60 90= 1-Po= 1-0.6 = 0.40

 $7 = \frac{1}{1000} = \frac{0.68 - 0.6}{0.6000}$ 

= 2.582





To test pight skewed: spool mode < median < mode mode < median < mean In left skewed: mean & median < mode

Assign mend:
n=100Kn 9/200
8 = 500 (300× L, 2001)
000 C-I = 95% ~ 3/000
11 = 300
n2 = 20000 6,000 419/ 114
= p + 2a p(1-p)
$= \frac{300}{500} + \frac{70.025}{250} \sqrt{\frac{0.6(1-0.6)}{250}}$
$= 0.6 \pm 1.96 \int 6.6 \times 6.4$
= 0.6 ± 0.0607
= 0.6607, 0.5393
: C.I of XI shirts = 0.5393, 0.6607
: Total XL shirts to be andered
= 53.93 K to 66.07 K
:. Total 1 86 into = 52.93 K
= 0246.07K
to 33.93 K