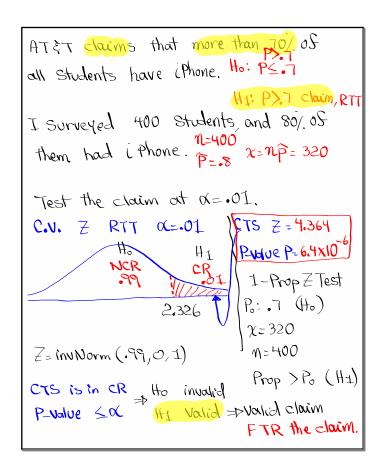
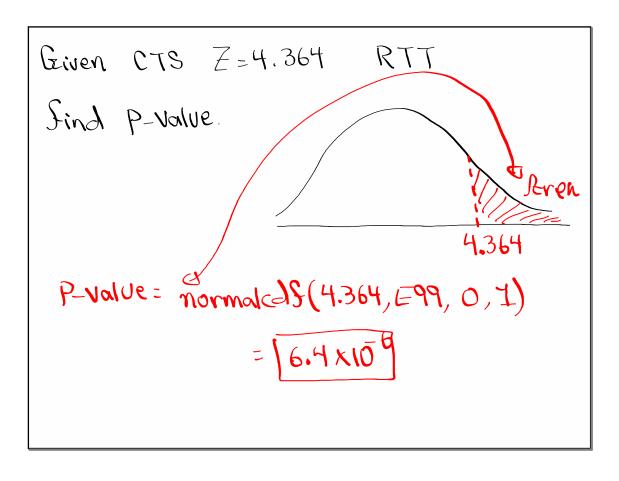
Elementary
Statistics
Lecture 13

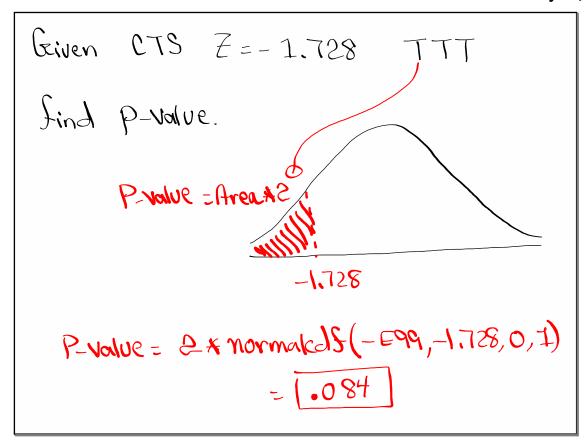


```
The College claims that 60% of all students
like online classes. Ho: P=06 claim
                       H1: P+.6 TTT
I surveyed 280 college students and
182 of them Tiked Online classes.
  N = 280, X = 182
Test the claim Using \alpha = 1.
C.V. Z ΤΤΤ α=•]
                       CTS Z=1.708
cR^{H_1}
                        P-Value P= .088
                        1-Prop Z Test
                 1.645
                         P.:.6
                                 (H^{\circ})
 -1.645
                         X=182
Z=inu Norm (95,0,1)
                          n=280
                          Prop = Po (H1)
CTS is in CR
                         [Calculate]
P-value & X
Ho invalid
         => Invalid claim & Reject the
HI Valid
```

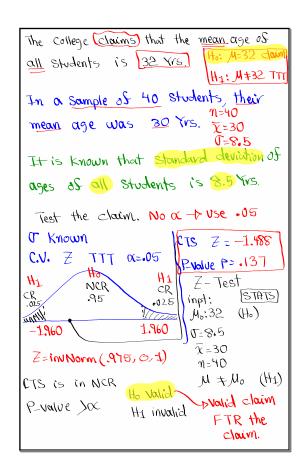
```
CNN claims that at least
                             40/05 all
Voters voted by Party line.
I surveyed (175 voters) and (38/, 05 them)
Noted by Porty line. n=175 x=np=175(.38)
                        P=.38
                                =66.5 |x=67
use this survey to test the claim at 12.02
                     C.V. \neq LTT \alpha = .02
            claim)
 4. P . 4
                     CRH1/
                             NCR
H1: P<.4
           LTT
                        -2.054
                       Z= inuNorm (.02,0,1)
CTS Z=-.463/
P-Value P= .322
                    CTS is in NCR
                                       Ho Valid
 1-Prop=Test
                    P-value > 0
                                       H<sub>I</sub> invalid
  Po: .4 (Ho)
                          Valid claim
                          FTR the claim
   \chi = 67
   n=175
   Prop < Po (Hx)
```

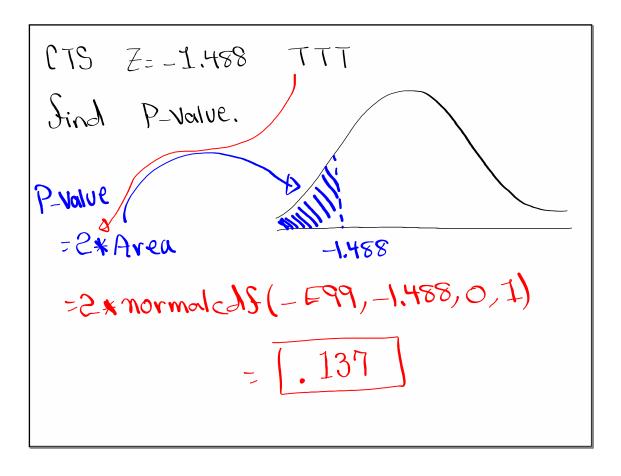






Testing	One Population	Mean M:	S& 25, S& 26	
Ho: Ju=	Ho! Ju &	Ho: 1	۱ <u>&gt;</u>	
H <sub>1</sub> : 从‡ TTT	H <sub>1</sub> : M> RTT	H <sub>1</sub> : L	Д( ТТ	
Case I: U Known				
C.V. Z	inuNorm			
CTS Z= P=Value P=	Z-Test			
use test	ring chart to	determine the	e Validity	
of Ho & H1.				
Final Conclusion				
Reject the claim OR FTR the claim				





```
Dept. of health Services claims that
 the mean Salary of all nurses is
 more than $6250/month, Ho: MS6250
                           Hz: 4>6250
In a Sample of 28 murses, their
mean Salary was $6350/month.
   \eta = 28 \bar{\chi} = 6350
                     0=475
It is known that stand. Lev. of
 Solaries of all nurses is $475/month.
Test the claim at \alpha = .1.
                         CTS Z= 1.114
J Known
                         P-Value P= .133
CV Z inuNorm RTT
                          Z-Test
X=.1
           NCR
                           inpt: [Stats]
                           Mo: 6250 (Ho)
                  1.282
                           J=475
Z=inuNorm (.9,0,1)
                            7=6350
                            n=28
CTS is in NCR Ho Valid
                            (zH) ole K
Produce > 0 HI invalid DInvalid claim
Suggest a Value For a that
                            Reject the
changes the claim.
                   Choose .14, .15, .2,
  P-value < x
                       .3, .4, - - -
    .133 SX
```

Testing One	Population	Mean M:	SG 25, SG 26	
Ho: Jh=	Ho! M <	Ho: M>		
H <sub>1</sub> : M <sup>‡</sup>	H <sub>1</sub> : M> RTT	H <sub>1</sub> : L		
Case I: U Known		Case II: O	Inknown	
C.V. Z inuNorm		C.V. t inv	T df=n-1	
CTS Z= Z	-Test	CTS t= P-value P	T-Test	
use testing chart to determine the validity				
of the & HI.				
Final Conclusion				
Reject the claim OR FTR the claim				

