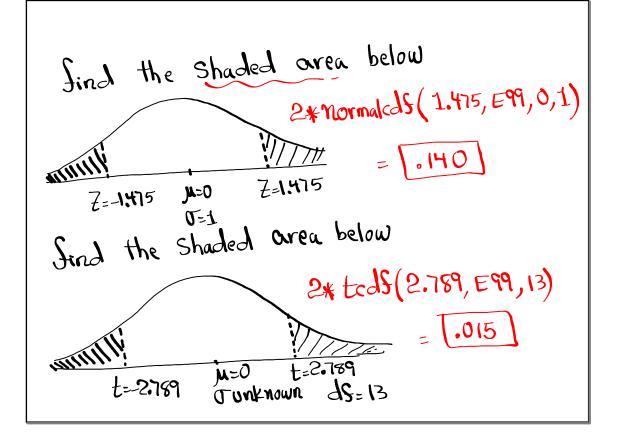


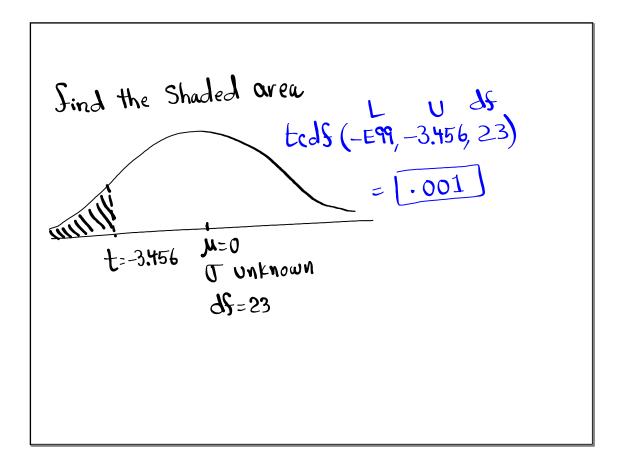
find minimum Sample Size needed is we wish to Construct 96%. Confidence Interval Sor Population Proportion with margin of error not to exceed 3%. $m = \hat{P} \hat{\varphi} \left(\frac{Z_{ay2}}{E}\right)^{2} = \frac{2.0541}{.03} = \frac{2.0541}{.03}$ a) $\hat{P}=.25$ = 1171 .92 - 878.94 n= 1172 m = 879

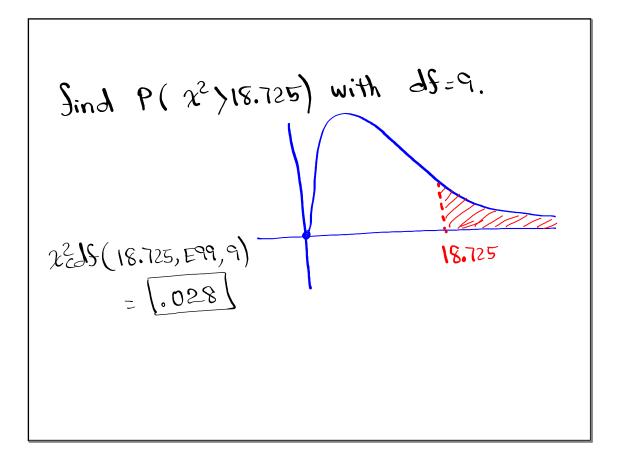
find minimum Sample Size needed is we wish to Construct 94% Conf. interval for population mean with margin of error not to exceed 20 and assume the Standard deviation of all is 95. $\mathcal{N} = \left(\frac{\overline{\mathcal{E}}_{\text{alg}} \cdot \overline{\mathcal{V}}}{E}\right)^2 = \left(\frac{1.881.95}{20}\right)^2$.94 .03 .03 Z.03=inuNorm(.97,0,1) -79.829. - 1.881 n=80

12 SAT exams had a mean of 1250 and
Stand. dev. of 100. n=12
$$\bar{x}=1250$$

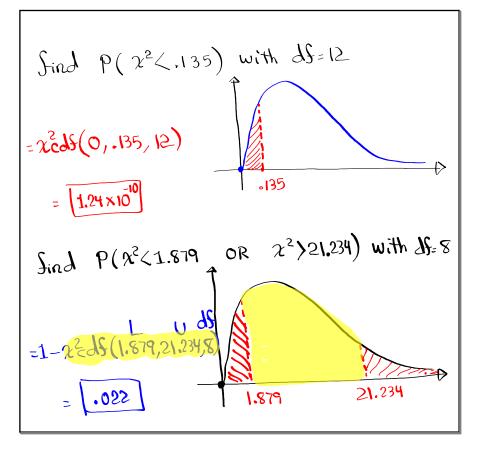
 $S=100$
1) find $Z_{a/2}$ or $t_{a/2}$ for 99% cons. interval for
the mean of all SAT exams. 0^{2} .99 .005
UNKNOWN => ta/2
df=n-1=11 t.005=invT(.995,11)
df=n-1=11 = 0.005
UNKNOWN => ta/2
df=n-1=11 = 0.005
UNKNOWN => ta/2
df=n-1=11 = 0.005
UNKNOWN => ta/2
1160

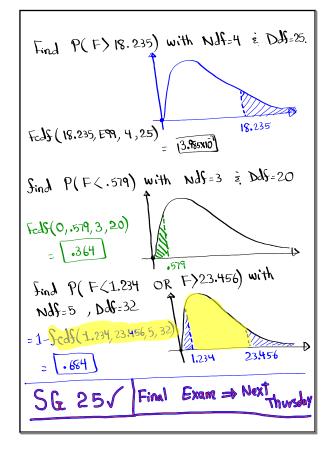


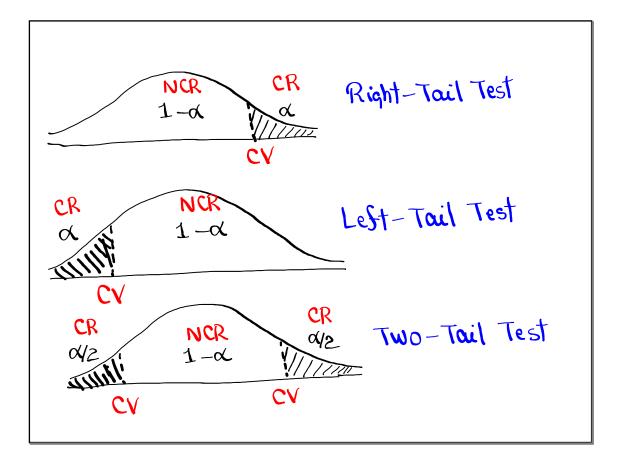




February 4, 2021







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