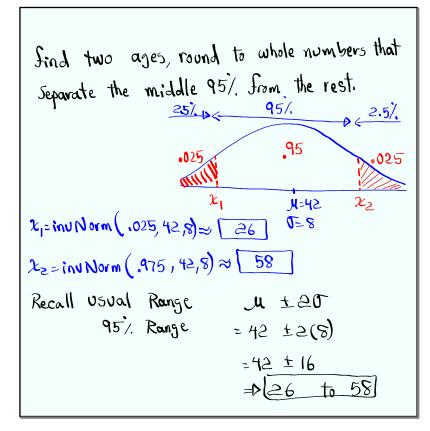


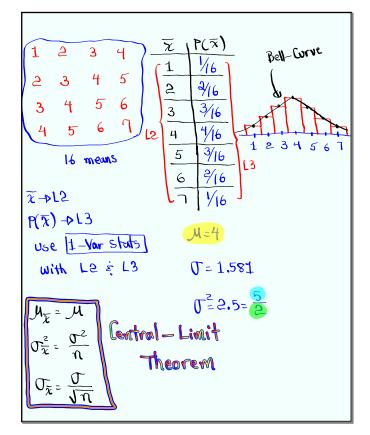
Feb 19-8:47 AM

Suppose ages of teachers in LAUSD are normally distributed with mean of 42 Yrs and Standard dev. of 8 Yrs. N(42,8) If we randomly select one teacher find the prob. that he/she is a) below 50 yrs old.  $P(\chi < 50)$ M=42 D=8 50 b) more than 30 yrs old. P(x)30) = normale 15 (30, E99, 42, 8) = 30 JH=42 5=8 = .933

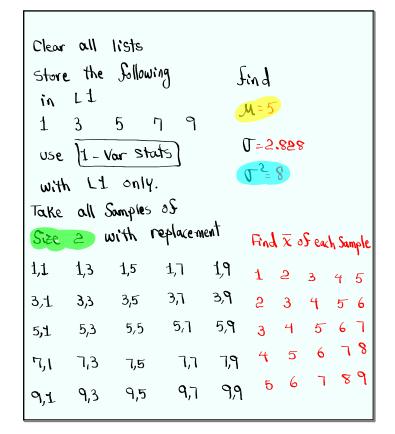


Oct 31-8:58 AM

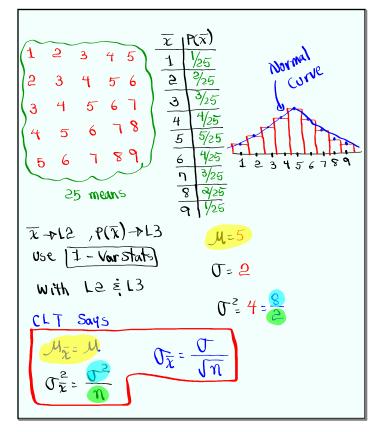
Consider the list below 1 3 5 7							
Store in L1, Find Use 1-Var stats M=4 wit L1 only 0=2.236 0=5							
Take all Samples with Size 2 with replacement Find $\overline{x}$ of each Sample							
1,1	1,3	1,5	1,7	1	2	3	4
		3,5			૩		
5,1	5,3	5,5	5,7		4		
7,1	7,3	7,5	7,7	4	5	6	.(



Oct 31-9:10 AM



Oct 31-9:20 AM



Oct 31-9:26 AM

Ages of teachers in LAUSD are N.D.  
with 
$$M=42 \neq 0=8$$
.  
IS we randomly select 4 teachers,  
find  $M_{\overline{x}} = M = 42$   
 $T_{\overline{x}} = \frac{0}{\sqrt{4}} = \frac{8}{2} = 4$   
Jind the Prob. that their mean age is  
between 40 = 45.  
P(40< $\overline{z}$ <45)  
= normak df(40,45,42,4)  
= [.465]

find the mean age for randomly selected groups of 5 teachers that separate the top 10%. From the rest. Right area . I  $\overline{\mathcal{X}}$ =invNorm(.9,42,8/15) .1  $\approx$  46.585  $\approx$  47 CLT

Oct 31-9:42 AM

Solaries of nurses in LA county has  
a normal dist. with 
$$M = $7200$$
 and  
 $T = 500$ .  
If we randomly select 16 nurses,  
 $M_{\overline{X}} = M = 7200$   
 $CLT \begin{cases} M_{\overline{X}} = M = 7200 \\ U_{\overline{X}} = \frac{0}{\sqrt{16}} = \frac{500}{\sqrt{16}} = \frac{500}{4} = \frac{125}{\sqrt{16}}$   
Sind the Prob. that their mean Salary  
is more than \$7000.  
 $P(\overline{X})7000)$   
=normalcd\$(7000, E99, 7200, 125)  
 $\approx 9.945$   
 $N_{\overline{X}} = M = 7200$   
 $CLT \begin{cases} M_{\overline{X}} = M = 7200 \\ U_{\overline{X}} = \frac{0}{\sqrt{16}} = \frac{500}{\sqrt{16}} = \frac{125}{\sqrt{16}} \end{cases}$ 

find  $\overline{x} = Q_1$  for randomly selected groups of 20 nurses. Round to Whole #.  $\overline{\chi} = Q_1 = inv Norm(.25, 7200, 500)$ .75 MININ . -7124.5897 ....  $\overline{z} = Q_{1} ( y_{\overline{x}} = y_{\overline{x}} = y_{\overline{x}})$ ≈7125 CLT 500 18, 19, 20, and SG 21

Oct 31-9:53 AM