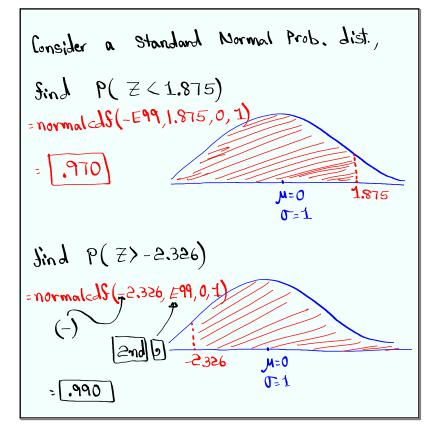


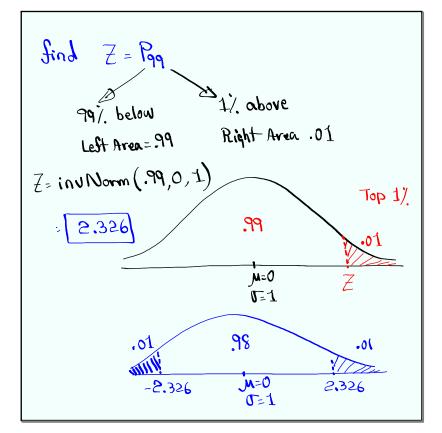
Feb 19-8:47 AM

wait time at a local store to see the Cashier  
is 5 minutes and it has a Uniform Prob.  
dist.  
what is the prob. that a wait time to See  
the Cashier Falls between 2.5 and 3 minutes,  
$$P(25 < x < 3)$$
  
 $= (3-2.5) \cdot \frac{1}{5}$   
 $= \frac{5}{5} = \frac{10}{10} = .1$ 

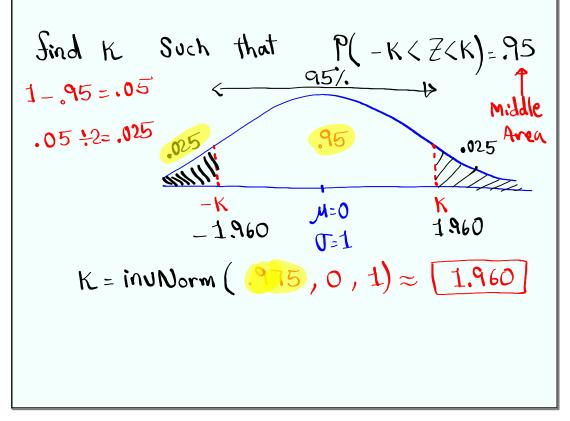
Apr 28-1:58 PM

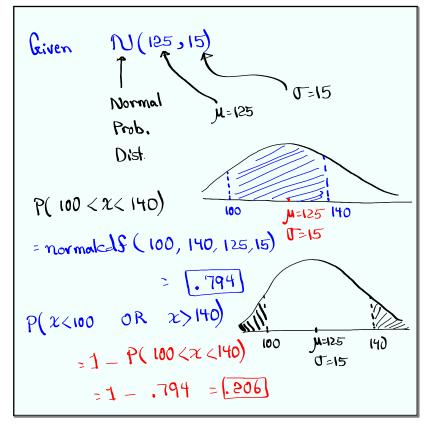


Apr 28-2:04 PM



Apr 28-2:10 PM



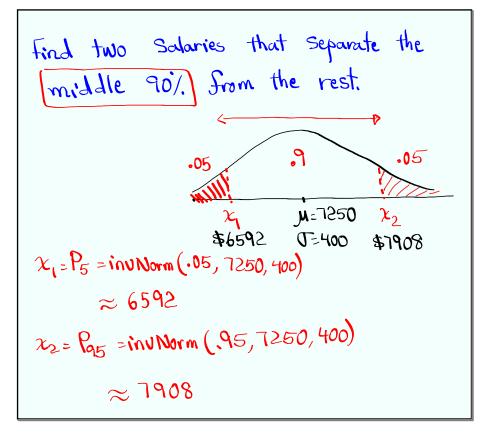


Apr 28-2:18 PM

find a value that Separates the top 4% Srom the rest. x=invNorm(.96,125,15) .96 04 M=125 X 151 0-15

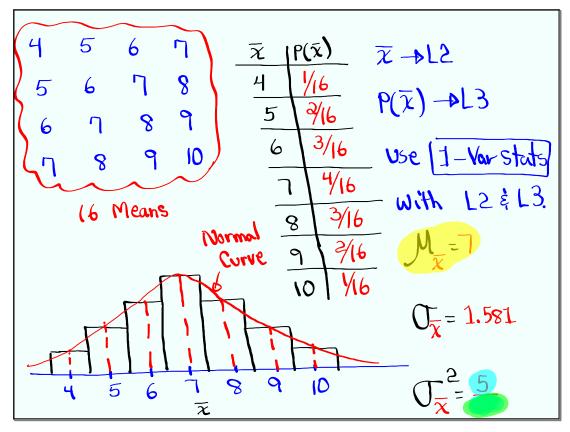
Salaries of nurses are normally dist. with the mean of \$7250 and N(7250, Standard deviation of \$400. If we randomly select one nurse, find the prob. that he/she makes less than \$7500. P(x<7500) =normalcalf(-E99,7500,7250,400) - 734 Ara M=7250 7500  $\approx 73/$ T = 400

Apr 28-2:27 PM

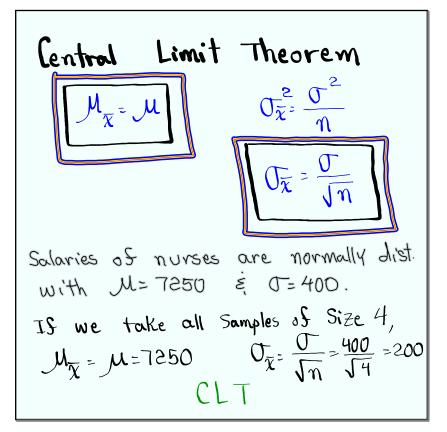


Consider the population of 4,6,8, and 10. Store in LI use [1-Vor stats] with L1 only. Find  $\mathcal{M} = \mathcal{T}$ T = 2.236  $T^2 = 5$ Take all Samples of Size 2 with replacement. 4,8 4,10 find  $\overline{x}$  of each 4,4 4,6 6,9 6,6 6,8 6,10 Sample. 8,4 8,6 8,8 8,10 5 6 **T** 4 5678 10,4 10,6 10,8 10,10 678 ٩ 9 10 8 η

Apr 28-2:40 PM



Apr 28-2:46 PM



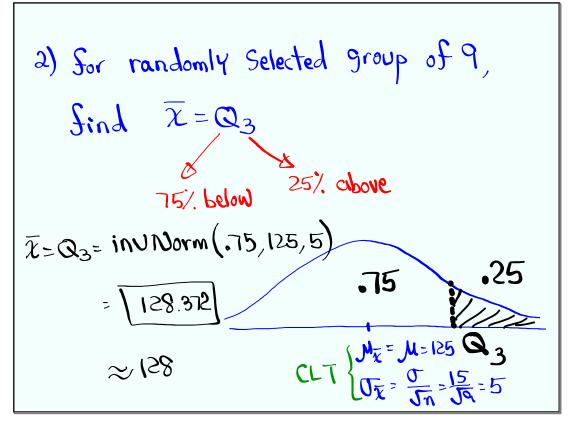
Apr 28-2:54 PM

math exams Scores are N.D. with  

$$M=82$$
 and  $T=10$ .  
If we take Samples of Size 3,  
 $M_{\chi} = M = 82$   $T_{\chi} = \frac{T}{\sqrt{3}} \frac{10}{\sqrt{3}} \approx 5.774$ 

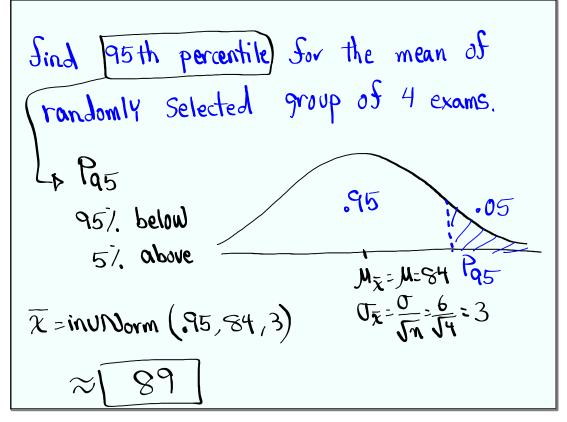
Given N(125,15) IS we take samples of Size 4,  $1) P(115 < \overline{x} < 130)$ = normalcalf(115,130,125,7,5)  $CLT \begin{cases} M = \frac{1}{2} \frac{$ 115 - 656

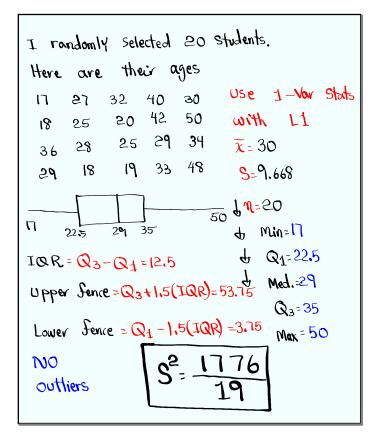
Apr 28-3:00 PM



Scores of month exams are normally dist. with M=84 and J=6 IS we randomly select 2 exams, find the prob. that their mean Score is a) above 80.  $P(\overline{x})$  80) =normabel \$ (80, E99, 84, 6/J2) 4=84 02 - Jn - 6 = [.827] b) below 88.  $p(\overline{x} < 88)$ = normalc JS (-E99, 88, 84, 45) 1/2= 14= 14-84 88 -1.827

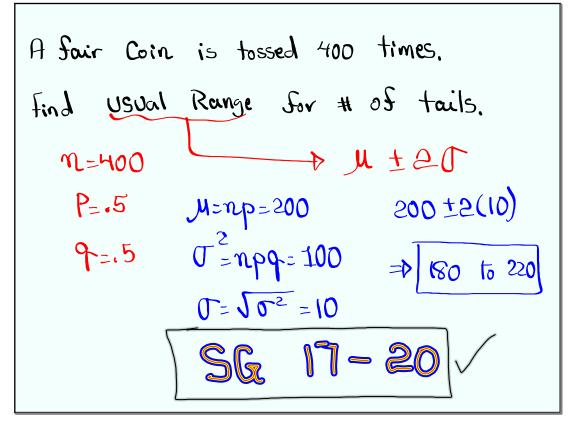
Apr 28-3:08 PM





Apr 28-3:21 PM

25 tickets sold at \$8 each. one ticket drawn Owner of this tickets gets a gift and Worth \$50. Find expected Value Per ticket Sold.  $\frac{\text{Net } P(\text{Net})}{8-50 / 25} \qquad \qquad \mathcal{U} = \mathcal{I} \mathcal{I} = \overline{\chi}$ 8-0 24/25



Apr 28-3:34 PM