

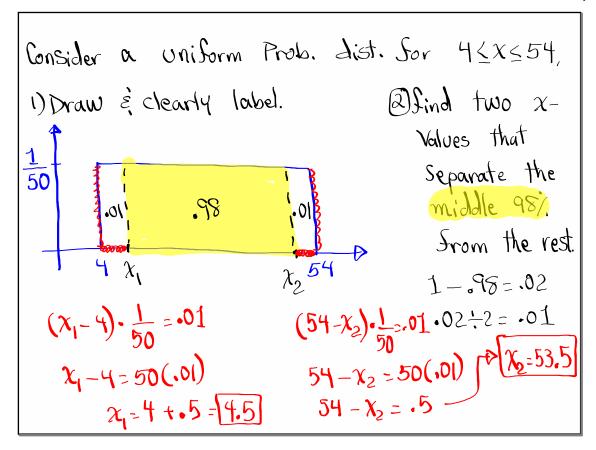
Class QZ 15

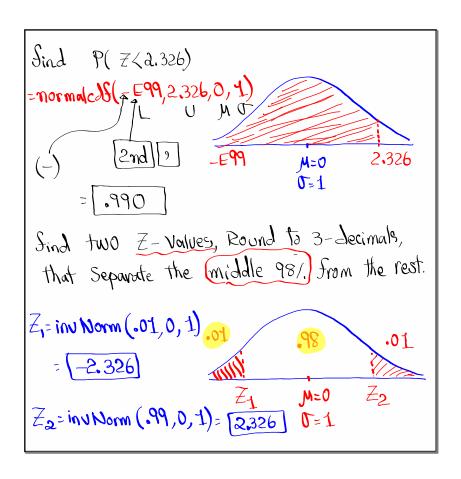
Consider a binomial Prob. dist with

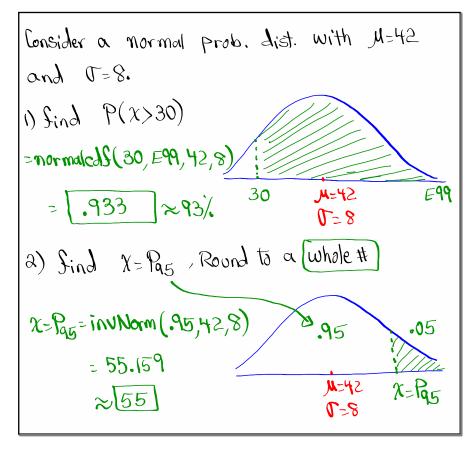
$$N=60$$
 and $P=.4$

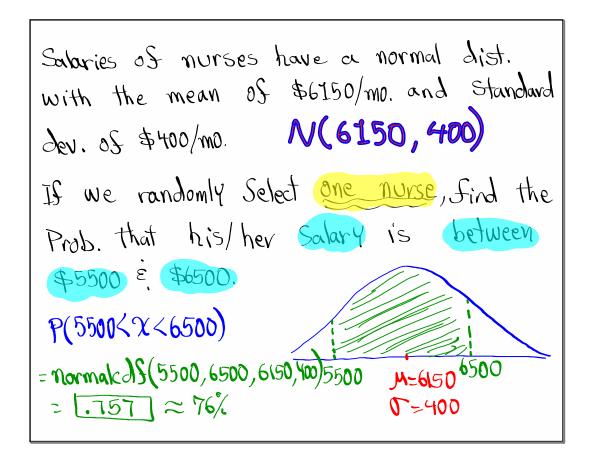
1) Sind $P(x=25)=$ binompds $(60, .4, .25)=$.100

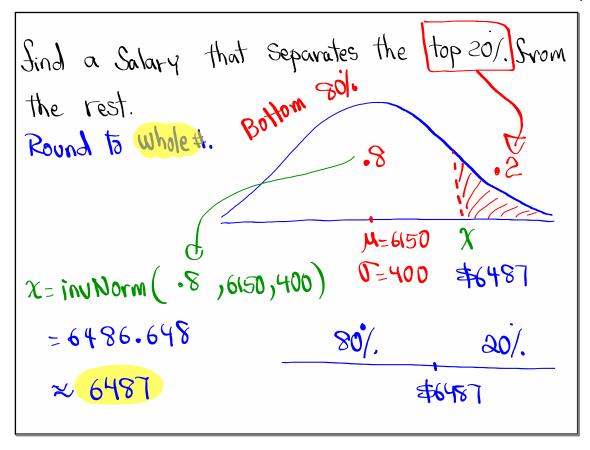
2) Sind $P(x\le 30)=$ binompds $(60, .4, .30)=$.956



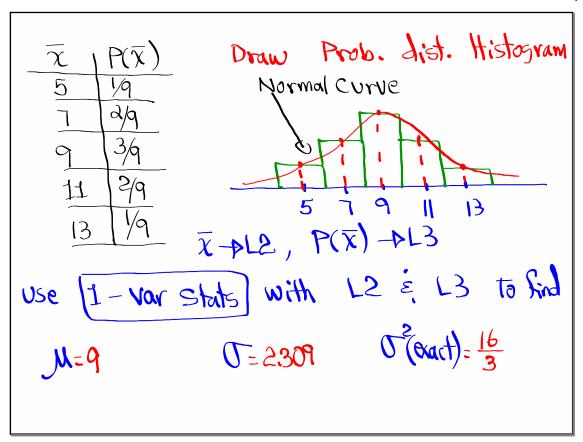


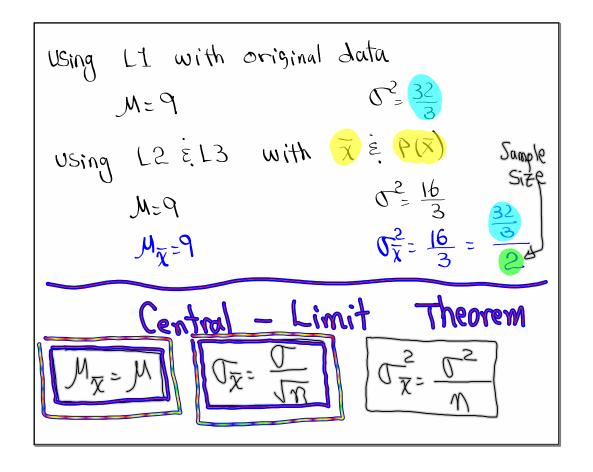


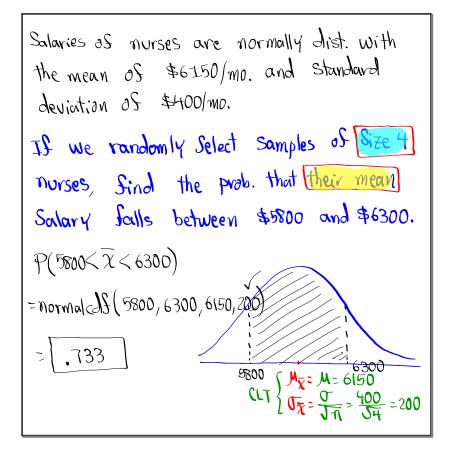


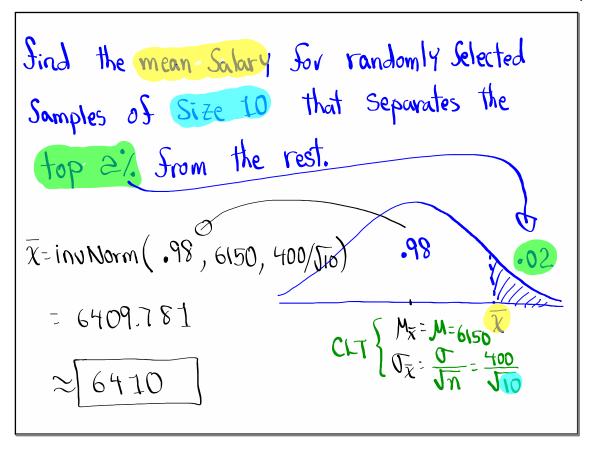


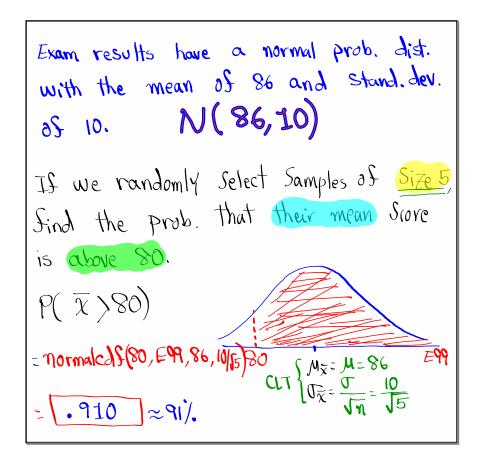
```
Clear all lists.
Reset all lists.
Store 5,9,13 in LI
use [1-Var stats] with L1 to find
              \sigma = 3.266 \sigma^2(\text{exact}) = \frac{32}{2}
M=9
Now take all Samples with Size 2 with
replacement from this list.
                                    \frac{\overline{x}}{5} \frac{P(\overline{x})}{9}
5,5
         5,9
                 5,13
                                          2/9
         9,9 9,13
9,5
                                          3/9
        13,13
 13,5
                                           2/9
                                     11
Sind x of each Sample!
                                           1/9
                                      13
               11 Means
          9
          11
```

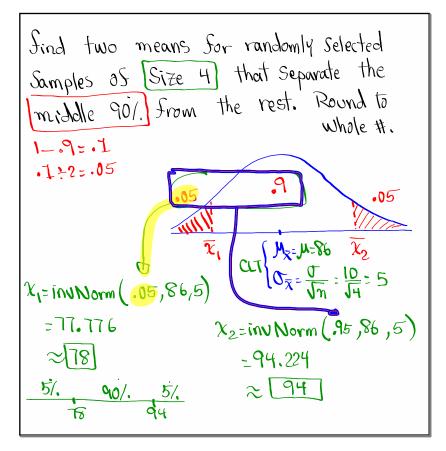


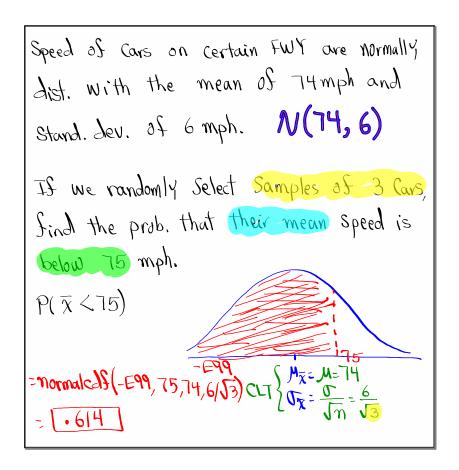












Sind
$$\overline{\chi}=Q_1$$
 for randomly Selected Samples of 4 Cars.

 $\overline{\chi}=Q_1=\text{invNorm}\left(.25,74,3\right)$ CT $\overline{\chi}=\frac{\sigma}{m}=\frac{6}{14}=3$
 $=71.977 \approx \boxed{72}$ SG 18,19,20, and 21

Class QZ 16

1) Consider a geometric Prob. dist. with
$$P=.3$$
,

Sind $P(x \le 3) = geometricals(.3, 3) = .657$

2) Consider a Poisson Prob. dist. with $M=5$,

Sind $P(x \ge 8) = 1 - P(x \le 7) = 1 - Poisson call(5,7)$
 $= .7133$