Math 227
Spring 2021
Lecture 17



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('lass Q'Z 18

Consider a binomial prob. dist with

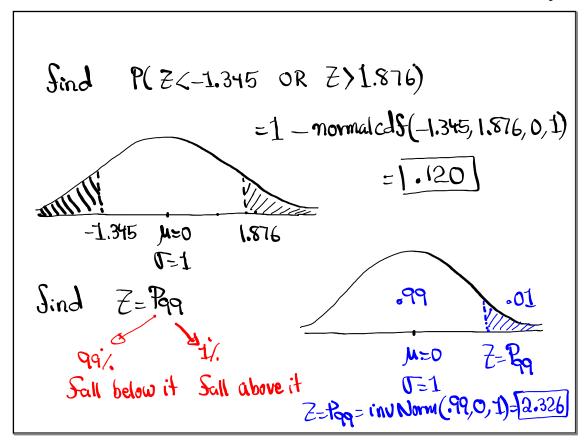
M=125 and P=.6

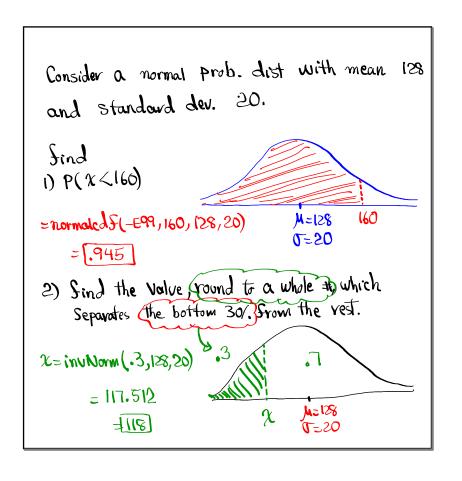
Let & be # 05 Successes.

1) P(x=80)

= binompdf(125,.6,80)= .049 = binomedf(125,.6,80)

3) P(70 \( 2 \) \( 2 \) \( 85 \) = \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \) \( - \
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Ages of nurses are normally distributed with the mean of 41.5 firs and standard deviation of 6.8 firs. N(41.5, 6.8)

If we randomly select one nurse find the Prob. that his her age is

a) below 50 firs.

P(2250)

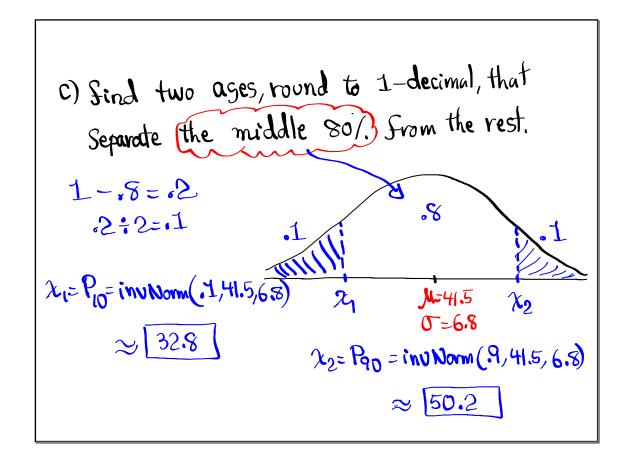
= normal: ds(-E99,50,41.5,68) = 1894 M=41.5

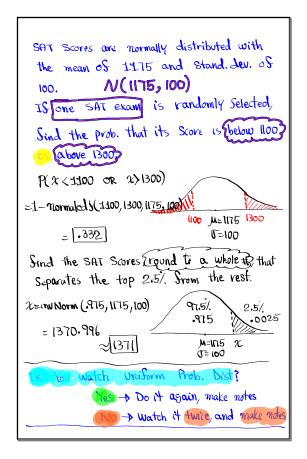
b) above 35 firs.

P(x)35)=

normal: ds(35,E99,41.5,68) 35 M=41.5

= 1830

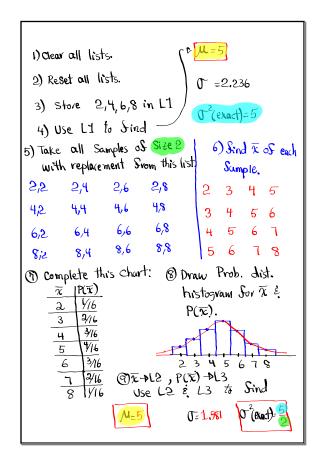


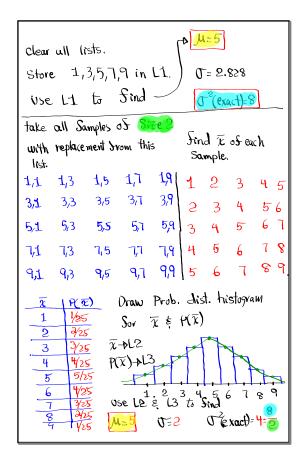


Class QZ 19

Consider a geometric prob. dist with 
$$F=.5$$

1)  $\mu = \frac{1}{P} = \frac{1}{.5}$  =  $\frac{1}{.5}$  =  $\frac{1}{.5}$ 

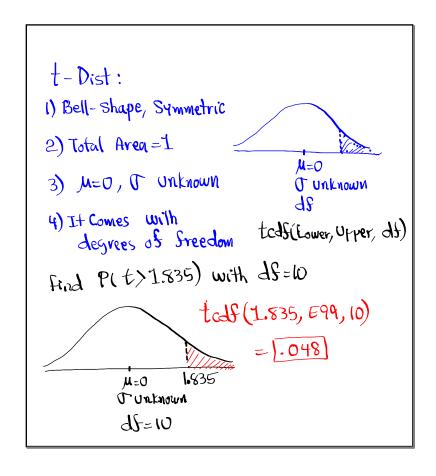


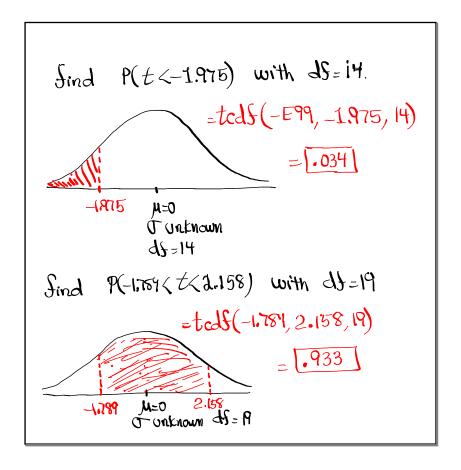






Make Sure to watch the video on Uniform Prob. Dist, and make notes.





## Degrees of freedom:

Do laundry on Sunday -> 7 Clean skirt

Monday -> 7 Choices

Tuesday -> 6 "

Sunday I Shirt

Wednesday -> 5 "

6 Clays -> Choices

GF=6

Class QZ 20

Consider a Poisson Prob. dist with the mean of 9 on a fixed interval.

1)  $0^{\frac{2}{5}}$ 

2) (]=

3) P(x≥8)