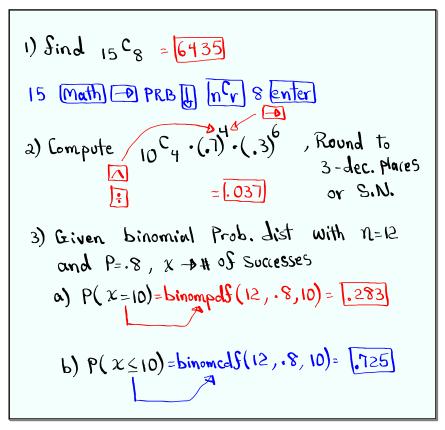
Statistics Lecture 16



Feb 19-8:47 AM



```
I Slipped a fair coin 400 times.

Success is to land tails.

1) n = 400

2) P=.5

3) q=.5

4) U=np=200

5) T=npq=100

6) T= T= 100

7) Usual Range

4 ± 2 t = 200 ± 2(10)

= 200 ± 20 => 180 to 220

8) P(Sewer than 210 tails)

P(x < 210) = P(x < 209)

= binomicals (400, .5, 209)

= .829

10) P(more than 185 tails)

P(x > 185) = P(x > 186) = 1 - P(x < 185)

we don't

we want

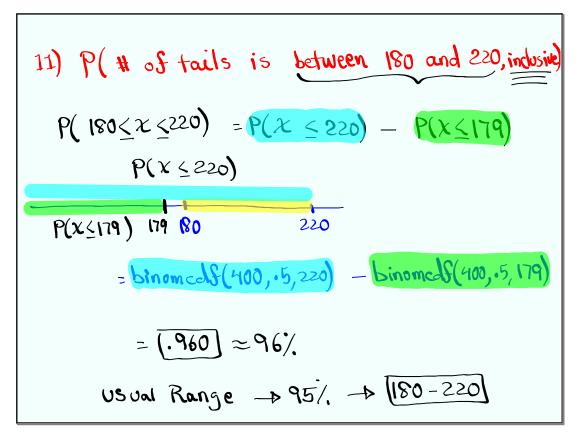
Total

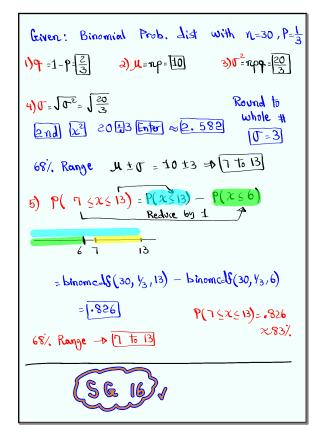
Want this p 86 this Prob.

= 1 - binomicals (400, .5, 185)

= .927
```

Oct 29-10:44 AM

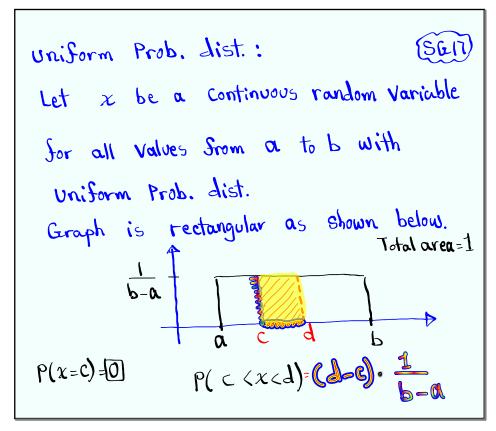




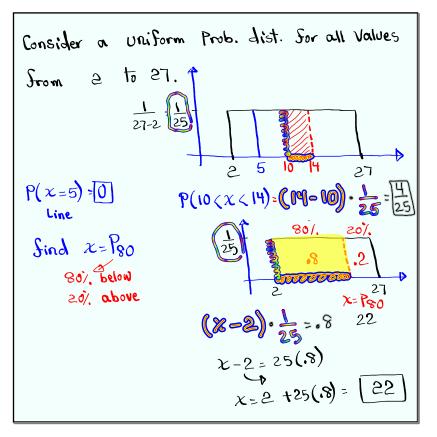
Oct 29-11:01 AM

```
working with Continuous Random Variable (SG-17-20)

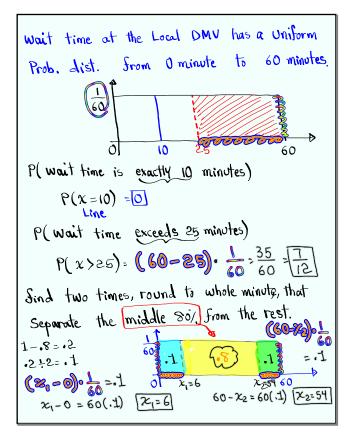
1) Uniform Prob. dist.
2) Standard Normal Prob. dist.
3) Normal Prob. dist.
3) Normal Prob. dist.
4) Applications
5) Central limit theorem | SG-19 & 20
6) More applications
```



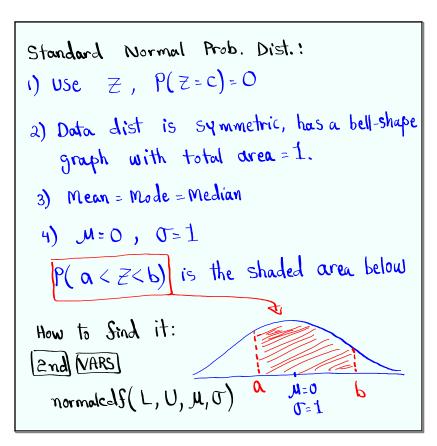
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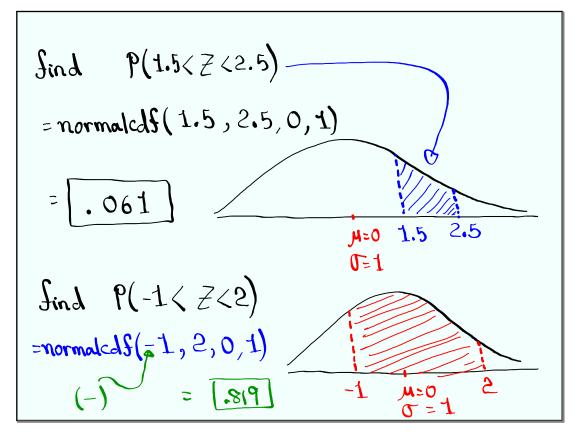


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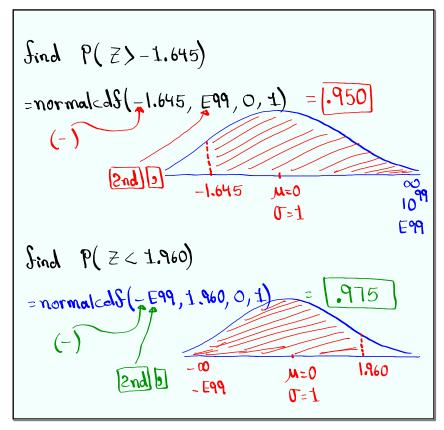


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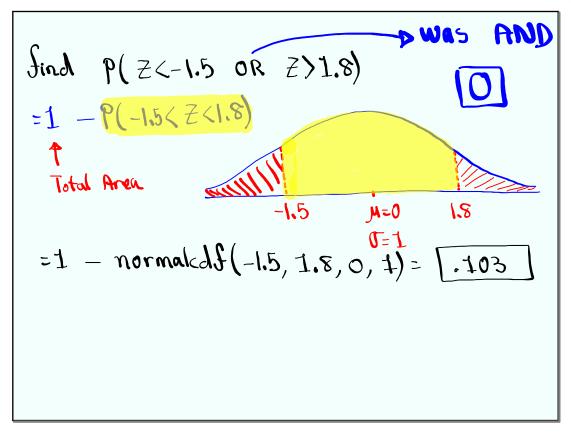




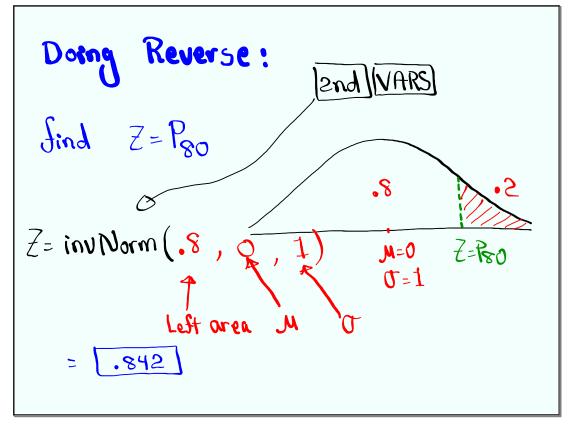
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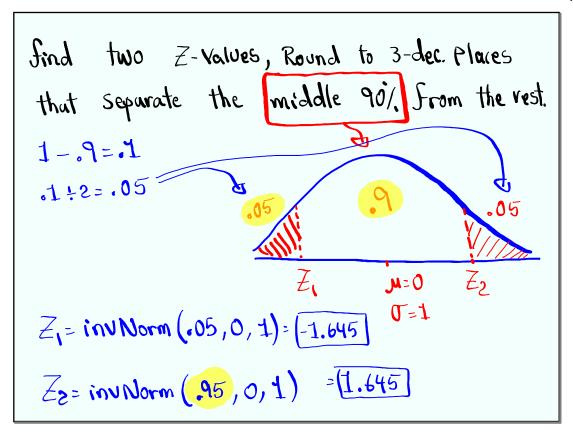


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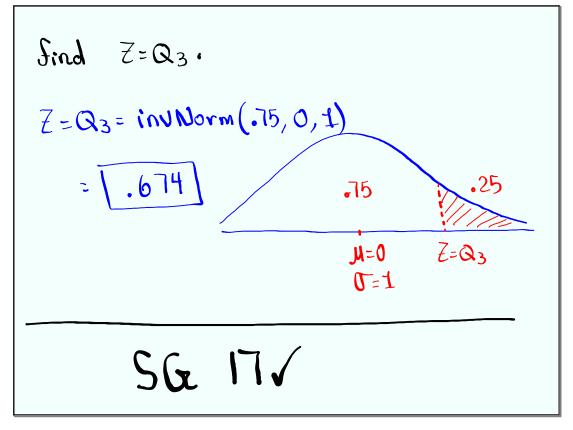


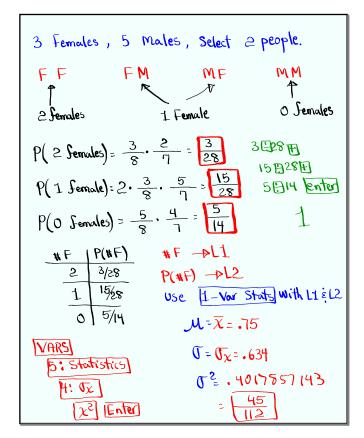
Oct 29-12:07 PM





Oct 29-12:15 PM





Oct 29-12:24 PM