

Find the ninth devile. 10 20 30. -OR- 90% Normal (62, 11) Find the 90th percentile. P(X < x) = 0.9 P(Z < Z) = 0.9Z = 1.282 72.102 $1.282 = \frac{\times -62}{11}$ 14. 102 = X-62 90% of lok times were under 72.102 = x72.102 minutes. 6.5 Review golf course yes or no X= number on golf course let "golf course" be success Not golf course = failure P(golf course) = 0.039 Sample size n= 250 Binomial (n = 250, p=0.039) np = 9.75 - This will caux some issues!

n(1-p) = 240.25Now assume normal approx is okay.

Find $P(4 \le X \le 10) \approx \text{`area''} Normal(np, \sqrt{np(1-p)'})$ Ux normal'. P(4 < X < 10)BUT we need to adjust this for intervals! P(4 - 0.5 < X < 10.5) = P(3.5 < X < 10.5)