

8. (CALC) 90% C.I.

80 82 82 84 90 95 97 97

(83.53, 93.20)

POINT ESTIMATE:  $\bar{X} = 88.375$

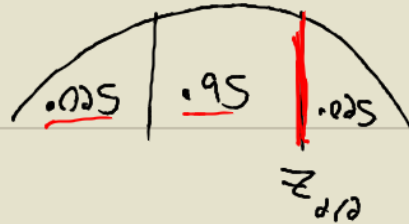
9. 95% CONFIDENCE

$E = 0.2$   
 $S = 1.3$

$$n = \left[ \frac{Z_{\alpha/2} S}{E} \right]^2$$

$$n = \left[ \frac{1.96(1.3)}{0.2} \right]^2$$

$n = 163$



TABLES  
 $Z_{\alpha/2} = 1.96$

TI-83/84  
INVMORM(.975)  
1.96

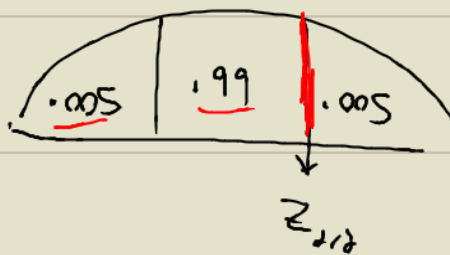
10. 99% CONFIDENCE

$E = 1$   
 $S = 2.1$

$$n = \left[ \frac{Z_{\alpha/2} \cdot S}{E} \right]^2$$

$$n = \left[ \frac{2.576(2.1)}{1} \right]^2$$

$n = 30$



TABLES  
 $Z_{\alpha/2} = 2.575$

CALC  
INVMORM(.995)  
 $Z_{\alpha/2} = 2.576$