$$\begin{array}{c}
N=126 \\
\overline{X}=29.2 \text{ ng/de}
\\
G=7.5 \text{ Mg/de}
\\
M=18.2 \text{ Mg/de}
\\
M=18.2 \text{ Mg/de}
\\
P\left(-\frac{2}{4}\sqrt{2}\right) = 1-\alpha
\end{array}$$

$$\begin{array}{c}
N=126 \\
\overline{X}=29.2 \text{ ng/de}
\\
\overline{X}=29.2 \text{ ng/de}$$

$$\begin{array}{c}
\overline{X}=29.2 \text{ ng/de}
\\
\overline{X}=29.2 \text{ ng/de}$$

$$\begin{array}{c}
\overline{X}=29.2 \text{ ng/de}
\\
\overline{X}=29.2 \text{ ng/de}$$

$$\begin{array}{c}
\overline{X}=29.2 \text{ ng/de}
\\
\overline{X}=29.2 \text{ ng/de}$$

$$\begin{array}{c}
\overline{X}=29.2 \text{ ng/de}
\\
\overline{X}=29.2 \text{ ng/de}$$

STAT 360 Summer

Document cam/Whiteboard Notes

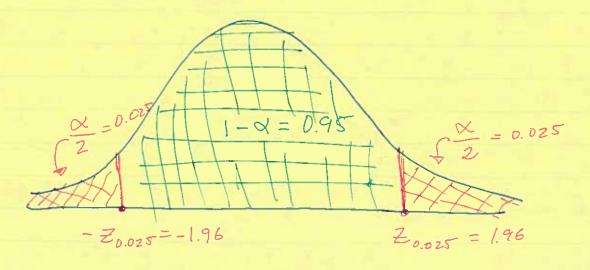
lecture 19/20 P1

Solution to Cairo Policeman lead

let's answer this problem by computing a

 $1-\alpha = 95$ CI around the population mean $1-\alpha = 0.95 \implies \alpha = 0.05 = 7 \propto = 0.025$

Normally Distributed + \$ 62 known => 12-scores



De Using table A.5 find Z-500re for 0.025 and for 0.9725

$$\left[29.2 - 196\left(\frac{7.5}{\sqrt{126}}\right), 29.2 + 1.96\left(\frac{7.5}{\sqrt{126}}\right)\right]$$

$$=$$
 $(27.89, 30.51) = C.I$.

=) If we perform this experiment 100 times, 95 times the true mean would be inside the above CI.

=> Note that it does not contain the average for the unexposed population.

=> Se the policemen have elevated levels of lead.