Assignment 1. [3rd July] stats day 5

Name: Deeraj. d. sabnis.

Q:-

$S = 500$

$\bar{x} =$

assume $n = 30$

$\alpha = 0.05$

C.I = 95.1.

Tshirts = 300 XL 200 L.

① Formula. $= \bar{x} \pm t_{\alpha/2}\left[\frac{s}{\sqrt{n}}\right]$.

$\alpha/2 = \frac{0.05}{2} = 0.025$

By referring t table

~~For~~ ~~n=3~~.

Degree of freedom $= n - 1$
$= 30 - 1$
$= 29$

From table

$29 \Rightarrow 2.045 \Rightarrow$ to .025

lower fence

$= 300 - 0.025\left[\frac{500}{\sqrt{30}}\right]$

$= 113.31$

higher fence

$= 300 + 2.045\left[\frac{500}{\sqrt{30}}\right]$

$= 486.68.$

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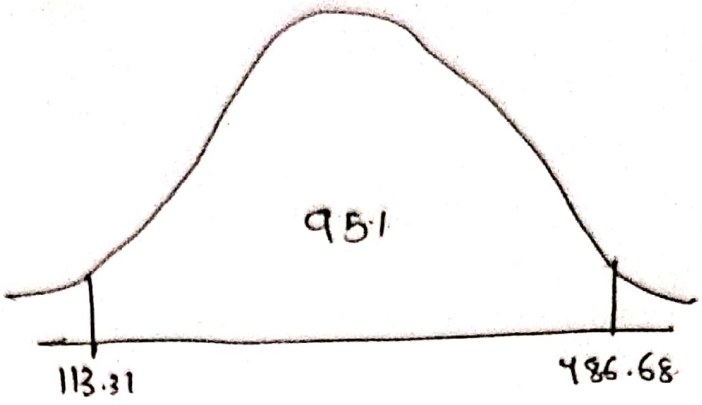


(11) $\bar{x} \pm t_{\alpha/2} \left[\frac{s}{\sqrt{n}}\right]$.

lower fence

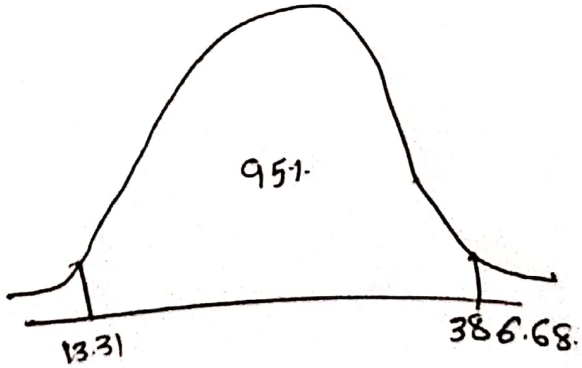
$= 200 - 2.045 \left[\frac{500}{\sqrt{30}}\right]$.

$= 13.31$

higher fence

$= 200 + 2.045 \left[\frac{500}{\sqrt{30}}\right]$

$= 386.68$.



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