
a)

lengths of sentences
The graph of the \# of words per sentence is Kemed right.
The median \# of words is 16.5 , and ranges from
5 to 64 words/sentence, with 64 looking like an outlier.
b) $\bar{x}=20.5 \quad S_{x}=12 \quad n=28$
$20.5 \pm 2.052\left(\frac{12}{t_{27}^{*}}\right)^{d f=27}$ $(15.85,25.15)$
c) $n \geq 30$ or pop is normal
$n=28<30$
Based on the graph of this sample (skewedright + out ier)
I don't think it's safe to assume
that the pop. is normal.
Pan't think the cond. are satisfactorily met.
d) $18.89 \pm 2.056\left(\frac{8.6}{\sqrt{27}}\right)$

$$
\begin{aligned}
& \hat{t} \\
& t_{26}^{*} \\
& 2.29
\end{aligned}
$$

Removing the outlier lowered the values of the interval.

$$
19-15
$$

a) varies ex: $29,26,2,11,8,18,0,5,40,3$
b) $t$

$$
\begin{aligned}
& \bar{x}=14.2 \\
& S_{x}=13.53 \\
& n=10
\end{aligned}
$$

$$
14.2 \pm 1.833\left(\frac{13.54}{\sqrt{10}}\right)
$$

$$
(6.36,22.04)
$$



$$
\begin{aligned}
& (1010 \text { and pop. Is skewed right } \\
& (10<30)
\end{aligned}
$$

d) varies (Yes)
*e) not really $\rightarrow$ rails conditions
$\otimes$ f) Yes $n=40 \geq 30$-simone likely to 'Succeed'

