Statistics Raven p ur
Calculator - Find mean, median mode, rance, 光 $Q Q_{3}, Q_{1}$

- Histogram - Bin settings q 1 st devi (f)
- Box Plot
width $x$
Alignment
stats Stats

2) Stem-Loaf Truncated Rounded

Truncate
Write Key
\# in 19000 's 12,300
Rounded $12 \mid 3=12,250-12,349$
Truxatey $|2| 3=12,300-12,399$

Mes. of Central Tend/Var.
3) Median - Date in order

250 precess of data $\frac{25^{20}}{2}=125^{\text {th }}+126^{\text {th }}$
271 pieces of date $\frac{271}{2}=135.5=136^{\text {th }}$
41
$\frac{\text { Mean }}{0 \cdot 10,000}=100,000$

| 27 <br> 10 <br> 10 |  |
| :---: | :---: |
| 8 | 10,000 |
| 22 | 5,000 |

8. 15,000 $=90,000$

$$
\frac{20 \cdot 5,000}{40}=\frac{110,000}{300,000}
$$

$$
\bar{x}=\frac{300,006}{9 p}=7500
$$

$$
\begin{aligned}
& \text { Median }=\frac{40}{2}=20^{\text {th }}+2^{\text {sh }} \text { Data in order: } \\
& =5000 \\
& m_{\text {ode }}=5000 \\
& \begin{array}{cc}
10 & 19000 \\
15,000
\end{array}
\end{aligned}
$$

5) Box-and-Whiskar Plot Median $=\frac{22}{2}=\underline{11^{\text {th }}+12^{\text {th }}}$

$$
\frac{71+83}{2}=81
$$

Quartiles: $\frac{11}{2}=5.5 \approx 6^{\text {th }}$

$$
Q=68 \quad Q_{3}=89
$$

5) Box-and-whisker Plot

Median $=\frac{22}{2}=\frac{11^{\text {th }}+12^{\text {th }}}{}$

$$
\frac{72+83}{2}=81
$$

Quartiles: $\frac{11}{2}=5.5 \approx 6^{\text {th }}$

$$
Q_{1}=68 \quad Q_{3}=89
$$

$$
I Q R=89-68=21
$$

Outliers $=35$
$21 * 1.5=31.5$
Lower: $68-31.5=36.5$
Upper: $89+31.5=120.5$


Study journe!!
List: 3 maas. of centrel-lend. mosteres, Mean, median, mode


Tskemed 3 menco of variation Range, IQR, st. dev. rowt afficies $\rho$ stutpursenay


Normal Distress
Know $z=\frac{x-\mu}{\sigma}=\frac{\text { Raw core- Mean }^{S H} \text { Lev. }}{\text { N. }}$
\# of calories in school lunch
Mean $=200$ colones $S H . D_{\text {Nw }}=50$
In one month ( 20 lunches), how many fall $280+320 ?$


How many colones in

$$
\begin{aligned}
& \text { * lowest } 20 \% \text { of lunches? } \\
& { }_{50} 0.84=\frac{x-200.50}{80} \hat{c}_{\mathrm{col} .} \mathrm{C} \\
& -92=x-200 \\
& 158=x
\end{aligned}
$$

