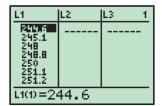
CHAPTER 20 - THE MEAN AND MEDIAN TI-84 Plus

Enter the data values into List 1.



Press 2nd Y= (STAT PLOT) 1, and set up Plot1 as shown.

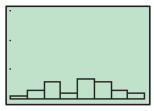
Press $\boxed{\text{WINDOW}}$, and change the window settings as shown.



WINDOW Xmin=240 Xmax=280 Xscl=5 Ymin=0 Ymax=30 Yscl=10 Xres=1

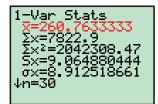
Press GRAPH to draw the histogram.

The distribution appears to be approximately symmetrical.



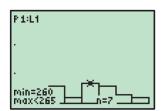
Press STAT \blacktriangleright 1:1-Var Stats 2nd 1 (L1) ENTER .

The mean of the data is ≈ 260.8 , and the median is 263.

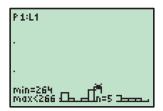


1-Var Stats †n=30 minX=244.6 Q1=253.9 <mark>Med=263</mark> Q3=266.5 maxX=277.5

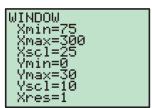
Press GRAPH to return to the histogram, then press TRACE . Scrolling across the columns, we find that the modal class is $260 \leqslant d < 265$ m.



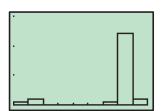
Press WINDOW , and change Xscl to 2. Press GRAPH to draw the histogram again. The modal class in this case is $264 \leqslant d < 266$ m.

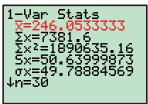


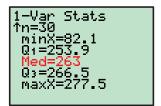
Return to the list data, and change the three shortest drives to 82.1 m, 103.2 m, and 111.1 m. Press $\boxed{\text{WINDOW}}$, and set up the screen as shown.



Press GRAPH to draw the histogram.



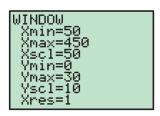


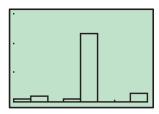


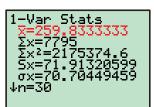
The mean has decreased to ≈ 246.1 , but the median is still 263.

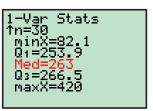
Return to the list data, and change the three longest drives to $403.9~\rm{m},\,415.5~\rm{m},$ and $420.0~\rm{m}.$ Press WINDOW , and set up the screen as shown.

Press GRAPH to draw the histogram.









The mean has increased to ≈ 259.8 , but the median is still 263.