CHAPTER 20 - BOXPLOTS TI-84 Plus

Consider the data set 3, 5, 5, 7, 10, 9, 4, 7, 8, 6, 6, 5, 8, 6.

Enter the data into List 1. To obtain descriptive statistics of the data set, press $\boxed{\text{STAT}}$ $\boxed{\blacktriangleright}$ 1:1-Var Stats $\boxed{\text{2nd}}$ 1 (L_1) $\boxed{\text{ENTER}}$.

So, the 5-number summary is

$$\begin{cases} minimum = 3 & Q_1 = 5 \\ median = 6 & Q_3 = 8 \\ maximum = 10 \end{cases}$$

To obtain a boxplot of the data, press 2nd Y= (STAT PLOT) 1 and set up Plot1 as shown. Press ZOOM 9:ZoomStat to graph the boxplot with an appropriate window.

The range = 10 - 3 = 7, and the IQR = 8 - 5 = 3.







