



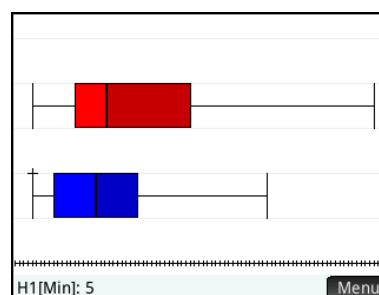
TECHNOLOGY CORNER

3. Making Box Plots on the HP Prime

The HP Prime can display up to 5 boxplots (box and whisker plots) in the same viewing window. Let's use the calculator to make side-by-side boxplots of the travel time to work data for the samples from North Carolina and New York.

- Enter the travel time data for North Carolina in list D1 and for New York in list D2 of the Statistics 1Var app. The data can be found on Page 52.
 - Press **Apps** and tap on the **Statistics 1Var** app icon
 - Type the values into lists D1 and D2
- Use the *Autoscale* option to display the side-by-side boxplots. Then tap or trace to view the five-number summary.
 - Press **View** and tap *Autoscale*
 - Tap anywhere on the display to move the tracer and view the 5-number summary (or use **▶** and **◀**)

Statistics 1Var Numeric View				
	D1	D2	D3	D4
1	5	5		
2	10	10		
3	10	10		
4	10	15		
5	10	15		
6	12	15		
7	15	15		
8	20	20		
9	20	20		
10	25	20		
5				



- Set up the two boxplots in the Symbolic view of the app
 - Press **Symb** to open the Symbolic view
 - Set **H1** to use D1 for the data and set **Plot1** to be *BoxWhisker* (tap **Choose** to make a selection)
 - Set **H2** to use D2 for data and set **Plot2** to be *BoxWhisker*
- You can also view the five-number summaries for both data sets in a table
 - Press **Num** to enter the Numeric view and tap **Stats**.

Statistics 1Var Symbolic View		
✓ H1: D1	Freq	
Plot1: BoxWhisker		
✓ H2: D2	Freq	
Plot2: BoxWhisker		
H3:		
Plot3: Histogram		
H4:		
Enter function		
Choose	✓	

Stats			
X	H1	H2	
n	15	20	
Min	5	5	
Q1	10	15	
Med	20	22.5	
Q3	30	42.5	
Max	60	85	
ΣX	337	625	
ΣX²	10819	28625	
\bar{x}	2.246667e1	31.25	
sX	1.523092e1	2.187735e1	
15			

- Tap **OK** when you are done to return to the Numeric view