

### Content and Language Objectives

Students will explore the techniques used to find a five number summary and box plot using a graphing calculator and be able to restate the steps required to use a graphing calculator to find a box plot and five number summary after:

- a.) creating a diagram showing the steps to using the calculator
- b.) practicing the various steps on a calculator

Let's continue working on the problems from yesterday

Graph the two box plots on the same line to see how they compare after you find the 5-number summary

Set 1: {3, 7, 8, 5, 12, 14, 21, 13, 18}

Set 2: {3, 7, 8, 5, 12, 14, 21, 15, 18, 14}

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**Now we will check our answers from the problems we just did using the calculator**

**First step: Clear the memory by first pressing the blue 2nd button and then the + sign; after that push 7, then 1, then 2**

**Second step: Find the STAT button and press it. Press number 1 so we can edit our table**

**Third step: Enter your data from Set 1; press STAT again; press number 2 next; push the blue 2nd button and the number 1 and enter; by doing this it puts the data in order from smallest to greatest**

**Fourth step: Press STAT again, push the right arrow once to highlight CALC, push 1 to calculate the 1-variable stats**

**Fifth step: Find the  $\bar{x}$ , this is the mean, then push the down arrow and we will find the five number summary, does it match what you did by hand?**

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Now we are going to check our graph

First step: to graph our box plot we are first going to press the blue 2nd key and then the Y= button

Second step: Press the number 1 to work with the first plot

Third step: You will have a flashing cursor on the word ON, press enter, this turns the graph on

Fourth step: Press the down arrow and then the right arrow until the box plot is highlighted and press enter

Fifth step: Make sure Xlist:  $L_1$  and Freq: 1

Sixth step: Find the window button and press it, Xmin=0 Xmax= your largest data value Xscl=1 Ymin=0 Ymax=10 Yscl=1 Xres=1, then press the graph button

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**CLASSWORK:**  
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**EXIT TICKET AND HOMEWORK**