

4/5/17 CCM6+7+

***Find MAD and Boxplot values and Measures of Center from a calculator.***

1. Agenda...HW is NONE...Test Mon 4/24
2. No HW to check...Take QUIZ?
3. No warm-ups this week.

Today...we need data.

How many first cousins do you have?

Let's put the answers into a list!

11, 5, 2, 6, 9, 9, 2, 3, 8, 14, 4, 9, 16, 6, 11, 7, 4,  
22, 4, 8, 11, 5, 4, 2, 2, 5, 2, 9, 2, 8

Finding mean and median (and quartiles)...

2nd LIST arrow over to CALC

1: 1-Var Stats

$$\bar{X} = \text{mean} = \left[ \right]$$

2nd LIST 1 (to choose L1)

ENTER

max X

min X

Q1 = 4

med = 6

Q3 = 9

$$\sum X \rightarrow \text{Sum}$$

n = # data values

Finding MAD...we need 2 lists...why?

Go to L2 to list differences from mean.

How can we get the average distance (MAD)?

$$\bar{X} = 7$$
$$\text{abs}(L1 - 7)$$

$$\overset{\checkmark}{\text{abs}}(\overset{\checkmark}{\text{L1-7}})$$

Arrow to L2 Highlighted

MATH arrow over to NUM choose 1:abs(  
2nd LIST 1

MAD: average L2...2nd LIST over to MATH

3:Mean(

$$\text{MAD} = 3.6$$

2nd LIST 2

Another set of data...

How many writing utensils you have with you here (count all pens, pencils, markers, colored pencils, highlighters)?

Put data into a list!

(Clear out lists first!--2nd 0 7 1 2)

34, 5, 28, 18, 2, 19, 37, 26, 44, 35, 28, 24, 34,  
50, 39, 14, 39, 29, 1, 9, 1, 24, 21, 1, 2, 1, 1, 3, 8

2nd LIST arrow to CALC

1: 1-Var Stats

$$\bar{x} = 19.9$$

2nd LIST 1

MAD: LIST 2 highlighted

MATH NUM 1

2nd LIST 1 - 19.9

$\bar{x}$  L2 2nd STAT MATH 3 2nd LIST 2