

Algebra Activity 8: Finding Measures of Central Tendency

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CALCULATORS: Casio: fx-9750G Plus • Casio: cfx-9850G Series

Student Handout

To enter data into a list:

- From the main menu, select **STAT**.
- If there is any data in List 1, delete it. Highlight List 1, press **F6**, **F4 (DEL-A)**, **F1 (Yes)**.
- Enter the following set of test scores in List 1:
75, 77, 100, 64, 75, 83, 88, 68, 92, 74, 81, 83, 83, 75, 81, 83, 89, 72, 80, 89, 85, 97, 74, 99

	List 1	List 2	List 3	List 4
1	75			
2	77			
3	100			
4	64			
5	75			

	List 1	List 2	List 3	List 4
20	89			
21	85			
22	97			
23	74			
24	EE			

To count the number of values in the list:

MENU 1(RUN) OPTN F1(List)
F3(DIM) F1(List) 1 EXE.

Dim List 1	24
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To find the minimum value in the list:

F6 F1(Min) F6 F6 F1(List) 1) EXE.

Dim List 1	24
Min(List 1)	64

To find the maximum value in the list:

F6 F2(Max) F6 F6 F1(List) 1) EXE.

Dim List 1	24
Min(List 1)	64
Max(List 1)	100

To calculate the mean of the data set:

F6 F3(Mean) F6 F6 F1(List) 1) EXE.

Dim List 1	24
Min(List 1)	64
Max(List 1)	100
Mean(List 1)	81.95833333

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To calculate the median of the data set:
F6 F4(Med) F6 F6 F1(List) 1) EXE.

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Max(List 1)      64
Mean(List 1)    81.95833333
Median(List 1)  82
List L1 M Dim Fill Seq 1
    
```

For an easier way to calculate one-variable statistics: **MENU 2(Stat) F2(CALC) F1(1VAR)**
 for one-variable statistics

```

1-Variable
x̄ = 81.95833333
Σx = 1967
Σx² = 163223
x̄σn = 9.15368398
x̄σn-1 = 9.35055993
n = 24
1VAR 2VAR REG SET
    
```

```

1-Variable
minX = 64
Q1 = 75
Med = 82
Q3 = 88.5
x̄-x̄σn = 72.8046493
x̄+x̄σn = 91.1120173
1VAR 2VAR REG SET
    
```

```

1-Variable
Med = 82
Q3 = 88.5
x̄-x̄σn = 72.8046493
x̄+x̄σn = 91.1120173
maxX = 100
Mod = 83
1VAR 2VAR REG SET
    
```