

### How to use calculator

Mode (3:stat ) \_\_\_\_ Then \_\_\_\_ ( 1: 1- VAR)

يظهر جدول لإدخال البيانات

Example: 2, 4,6, 9

2 = , 4= , 6 = , 9=

نضغط (AC)

### To find mean , standard deviation and variance

نضغط

Shift ( 1)

وتختار الرقم

5:Var ( or 4:Var)

ويظهر في الشاشة

1:n	2: $\bar{X}$
3: $x\sigma n$ (or $\sigma_x$ )	4: $x\sigma_{n-1}$ ( or $S_x$ )

\*\*\*\*\* AC ملاحظة : بين كل خطوة خطوة نضغط \*\*\*

For mean : Push 2

For Sample standard deviation :Push 4

For Population standard deviation :Push 3

\*To find sample variance = square (Sample standard deviation)

\* To find Population variance = square (Population standard deviation)

**For each of the data sets in the following exercises compute:**

- a) The mean
- b) The median
- c) The mode

- d) The range
- e) The variance
- f) The standard deviation

1- For the following sample

41 37 51 32 48 53 44 32 38 42 46 48 49 51

Arrange data : 32 ,32 ,37,38, 41,42,44, 46,48, 48,49,51,51,53

a) The mean =  $\bar{X} = 43.714$

b) The median =

c) The mode = 32 ,51

d) Range=  $R = 21$

e) Variance =  $S^2 = 4.066$

f) The Standard Deviation=  $S = 6.933$

2- H.W : For the following sample

103 68 62 60 60 54 49 44 42 41  
38 36 34 30 19 19 19 19 17 16

a) The mean = 41.5

b) The median = 39.5

c) The mode = 19

d) Range= 87

e) Variance = 490.264

f) The Standard Deviation= 22.1419

3- H.W

For the following sample

40.0 47.0 34.0 42.0 54.0 48.0 53.6 56.9 58.0 45.0  
54.5 54.0 43.0 44.3 53.9 41.8 33.0 43.1 52.4 37.9

34.5   40.1   33.0   59.9   62.6   54.1   45.7   40.6   56.6   59.0

- a) The mean = 47.416
- b) The median = 46.35
- c) The mode is 33.54
- d) Range= 29.6
- e) Variance = 76.537
- f) The Standard Deviation= 8.7485