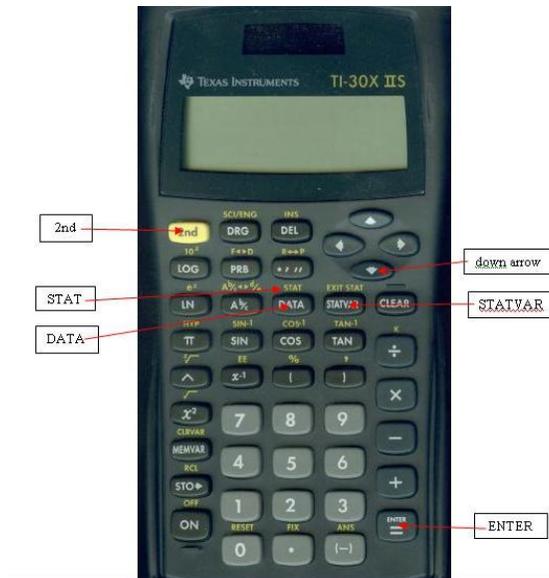


Statistics Applications for TI-30x IIs Calculator Revised 4/03/2017

Chapter 2 and 3:



Clear Previous Data

Press 2: STAT / DATA

You will see 1-VAR 2-VAR

Press  **right arrow key twice to see:**

CLLRDATA,

Press **ENTER** to clear all existing data

Descriptive Statistics for one set of Raw Data

Press 2: **STAT / DATA**

You will see 1-VAR 2-VAR

Press **ENTER**

Press **DATA**

You will see X1 = Assume you want to enter (10,12,13, 20,18)

Input your first number – 10

Press the down arrow 

You will see FRG = 1

Press the down arrow 

You will see X2 = Follow this process until all numbers are entered

Once all data is entered. Press **STATVAR**

You will see \underline{n} , \bar{x} Sx σx
5

Press the right arrow  to advance to each value

$$\begin{aligned} n &= 5 \\ \bar{x} &= 14.6 \\ Sx &= 4.219004622 \\ \sigma x &= 3.77592453 \\ \sum x &= 73 \\ \sum x^2 &= 1137 \end{aligned}$$

To get the variance

Press the right arrow  to advance to the **Sx** location then hit **x2** then **ENTER**. The value of the sample variance 17.8 appears in the display

Summary Statistics for one set of Raw Data using Frequency Distribution

Press 2: **STAT / DATA**

You will see 1-VAR 2-VAR

Press  **right arrow key twice to see: CLLRDATA,**

Press **ENTER** to clear all existing data

Press 2: **STAT / DATA**

You will see 1-VAR 2-VAR

Press **DATA**

You will see X1 = Assume you want to enter data from this table

Midpoint	Frequency
10	3
13	2
16	5
19	3
22	6
25	4

Input your first number – 10

Press the down arrow 

You will see FRG = 1 Press 3 to change frequency

Press the down arrow 

You will see X2 = Follow this process until all numbers are entered

Once all data is entered. Press **STATVAR**

You will see n , \bar{x} Sx σx
23

Press the right arrow  to advance to each value

$$n = 23$$

$$\bar{x} = 18.47826087$$

$$Sx = 5.007898899$$

$$\sigma x = 4.897821740$$

$$\sum x = 425$$

$$\sum x^2 = 8405$$

Chapter 4:

Counting Methods

1. Factorial $n!$

<p>Find the value of $5!$</p> <p>First enter "n", then select PRB $n = 5$</p> <p>Press the right arrow  to advance !</p> <p>Hit ENTER $5!$ appears</p>	<p>nPr nCr !</p>
<p>Hit ENTER again and the answer 120 appears</p>	<p>$5!$ 120</p>

2. Permutations nPr

<p>If a president, vice president are to be selected from 5 committee members, how many permutations can be selected. In this example order is important so we use Permutations ${}_n P_r = {}_5 P_2$</p> <p>$n = 5$</p> <p>First enter "n", then select PRB</p> <p>Press the right arrow  to advance to nPr and hit ENTER</p>	<p>nPr nCr !</p>
<p>Press 2 and hit ENTER again and the answer 20 appears</p>	<p>${}_5 P_2$ ANS 20</p>

3 Combinations nCr .

<p>If 3 committee members are select from 5 employees how many combinations can be selected. In this example order is not important so we use Combinations = ${}_n C_r = {}_5 C_3$</p> <p>$n = 5$</p> <p>First enter “n”, then select PRB</p> <p>Press the right arrow  to advance to nCr and hit ENTER</p>	<p>nPr nCr !</p>
<p>Press 3 and hit ENTER again and the answer 20 appears</p>	<p>${}_5 C_3$ ANS 10</p>