

This activity assumes that you already know the setup steps to create a histogram as explained in the Basic level Help Sheet 406.


We will use the randList function to create a list of 100 random numbers between 1 and 20 and examine their distribution using a histogram.

Open the Statistics application.

Tap **Edit, Clear All**.

Open the keyboard.

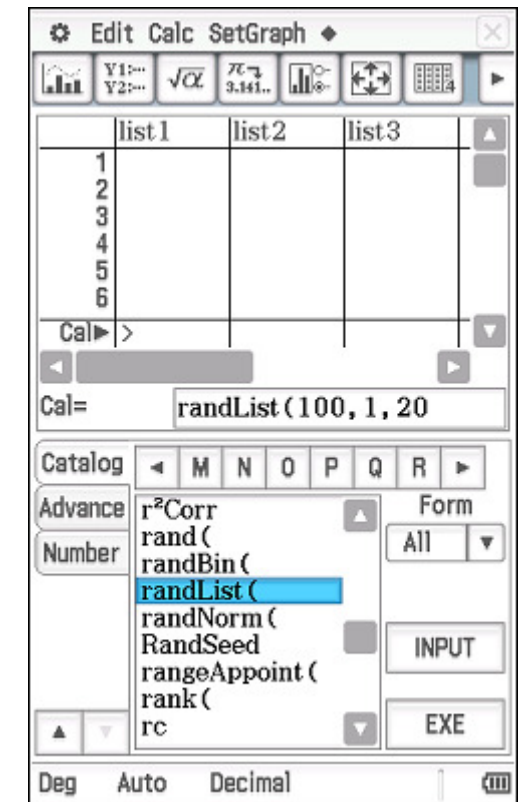
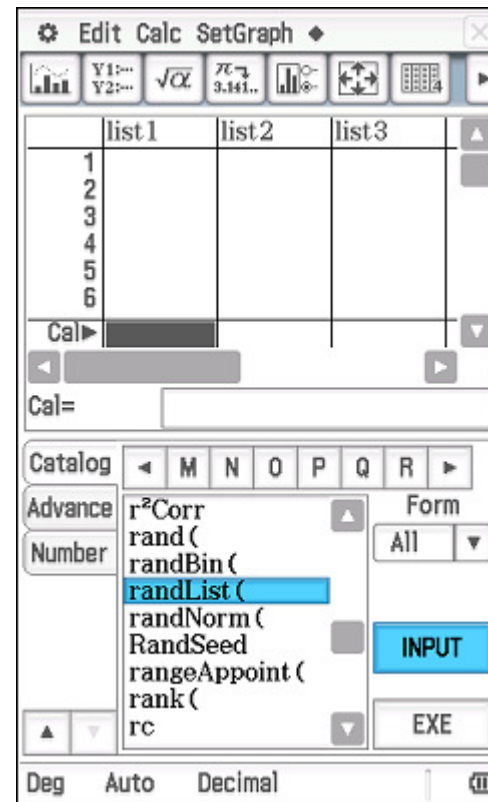
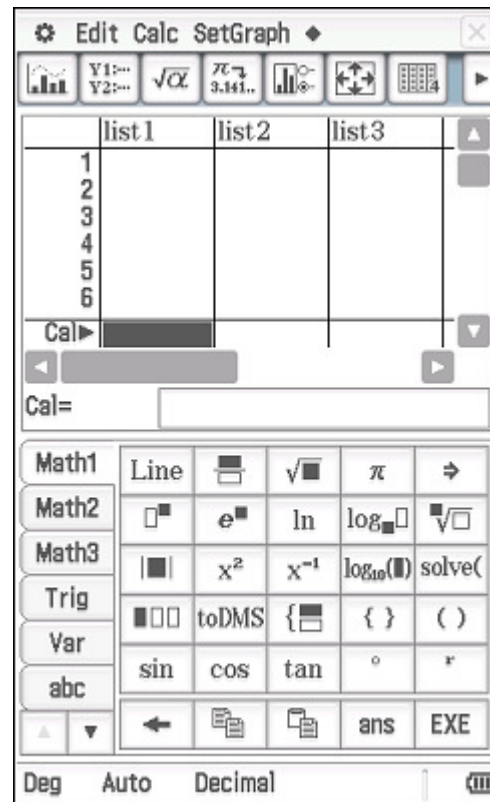
Tap into the **Cal** box at the bottom of the list1.

Tap  to reach the Catalog, find and select the **randList(** function.


Tap **INPUT**.


Type 100, 1, 20 and a closing bracket, to generate a list of 100 random integers between 1 and 20.

Tap **EXE**.

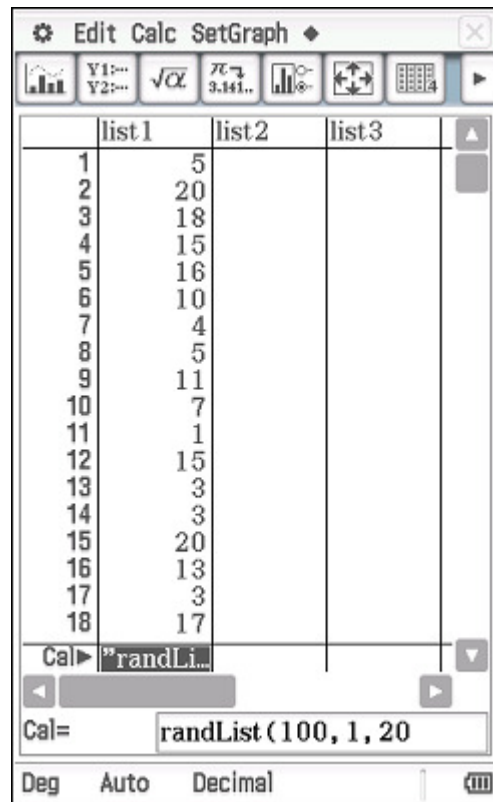


Edit the SetGraph settings as shown for a histogram.

Tap  and accept the default Set Interval values by tapping **OK**.

Tap  to display the histogram in a single window.

Notice that list1 now contains 100 random numbers from 1 to 20.



	list1	list2	list3
1	5		
2	20		
3	18		
4	15		
5	16		
6	10		
7	4		
8	5		
9	11		
10	7		
11	1		
12	15		
13	3		
14	3		
15	20		
16	13		
17	3		
18	17		

Cal= randList ( 100, 1, 20



**Set StatGraphs**

1 2 3 4 5 6 7 8 9

Draw:  On  Off

Type: Histogram

XList: list1

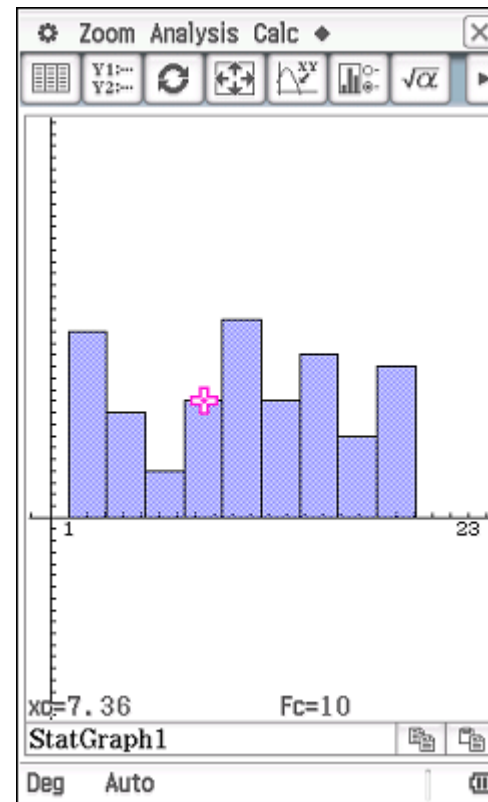
Freq: 1


**Set Interval**

HStart: 1

HStep: 2.12

OK Cancel



Tap  and the Set Interval input box is displayed. Modify the values so that HStart is 0.5 and HStep is 2. Tap **OK** and again trace along the columns. The first class is now 0.5 – 2.5, the second 2.5 – 4.5 and so on. Classpad would include a score of exactly 2.5 in the second class and so we could write the class intervals more formally as  $0.5 \leq x < 2.5$ , etc.

