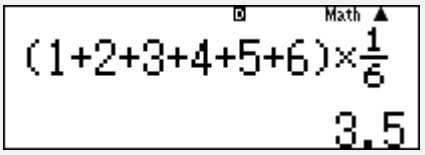
Module : Statistics and probability

Part B – Estimating random events

The fairness of an event can be simulated on a calculator using the mean as way of judging the fairness of a random event.

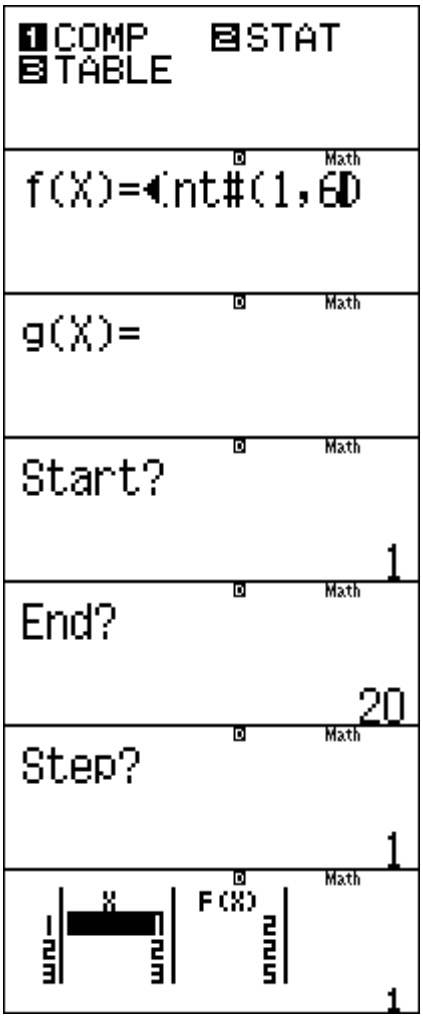
We must first find the mean of a fair six sided cube. Find the mean of the probability of each face times its value and add them together.

AC (1 + 2 + 3 + 4 +
5 + 6) × MODE 1 ▼ 6 =
S⇔D



To make a table of 20 random value between 1 and 6. Change the MODE on the calculator by pressing and selecting table [MODE] [3].

[MODE] [3]
[ALPHA] [•] [1] [SHIFT] [)] [6] [)] [=]
[=]
[2] [0] [=]
[=]



Create a frequency table to count the number of times every integer between 1 and 6 appears. Calculate the mean in COMP mode. For this example.

Number	Frequency
1	2/20
2	6/20
3	3/20
4	5/20
5	3/20
6	1/20