

Computing on the TI-83 or TI-84

Random Samples from a Uniform Random Variable

Let X be the random variable that is uniform on the interval $[0, 1]$. We wish to produce a random sample from X of size $n = 150$ (say) and then to compute its sample mean \bar{x} .

1. To generate 150 random numbers between 0 and 1:

MATH

select PRB

select 1:rand

then type (150) **ENTER**

2. To store these numbers in a list:

STO→

then type **L1** (that is, **2nd** **1**) or whichever list variable you want to use **ENTER**

3. To compute the sample mean \bar{x} :

STAT

select CALC

select 1:1-Var Stats

then type **L1** **ENTER**

Computing Probabilities for a Normal Random Variable

Let X be the normal random variable with mean μ and standard deviation σ .

To compute $P(a \leq X \leq b)$:

DISTR (that is, **2nd** **VAR**)

select 2:normalcdf(

then type a, b, μ, σ) **ENTER**