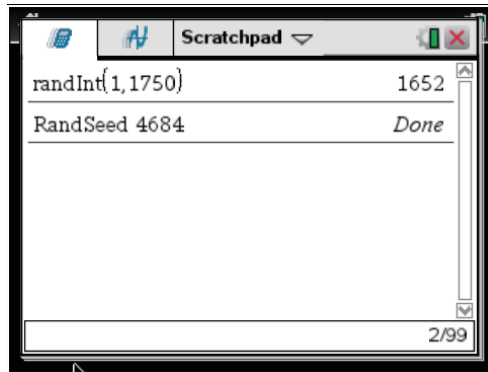# 11. Choosing an SRS
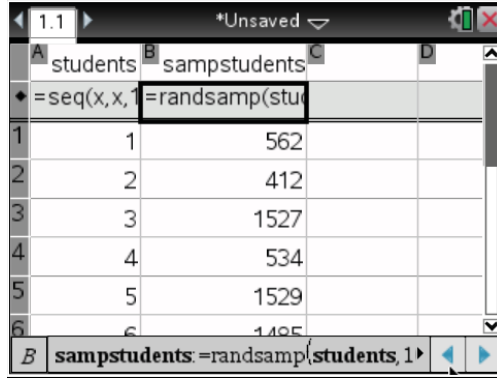
The TI-Nspire has a function called **randSamp** that will randomly select individuals for a sample with or without replacement from a population.

1. Check that your calculator's random number generator is working properly.
    - Open the calculator scratchpad by pressing » (or (⌂ on) **A** on the keypad).
    - Type **randint(1,1750)** and press (enter).
    - Compare results with your classmates. If several students have the same number, you'll need to seed your calculator's random number generator with different numbers before you proceed. Type randseed, press [⎵] (to insert a space), type <last four digits of your phone number> and press (enter). Done should appear. Now your calculator is ready to generate numbers that are different from those of your classmates.

2. Insert a Lists & Spreadsheet page. If you already have a document open, press (ctrl) [I] and select *Add Lists & Spreadsheet.* If you do not have a document already open, press (≡▤) ((⌂ on) on the clickpad), then (4). Press (menu) and select Add Lists & Spreadsheet.

3. Name column A students. Arrow down to the formula cell and press (enter). students:= should appear. Type **seq(x,x,1,1750)** and (enter). This will put the digits 1 through 1750 in this list.

4. Name column B sampstudents. Arrow down to the formula cell and press (enter). sampstudents:= should appear. Type randSamp(students,10,1) and press (enter). This function will take a random sample of 10 students from the list. "1" lets the function know to do the sampling without replacement.

Note: Sampling *with* replacement is the default setting for this function. You can use **0** as the third input in the **randSamp** command or close the parentheses after the second input.