

Sampling Assignment

The can before you contains 60 slips of paper, each bearing an integer value. Consider this to be a 60-member **population**. You'll each randomly select a **sample** of 6 slips. Sampling will be done *without replacement*, meaning you won't return any of the selected slips to the can until after you've randomly sampled your 6 slips and recorded their values below.

- a) Shake the can to mix the slips of paper.
- b) Open the can and randomly select one slip. Record this first slip's value in the table below. Do **not** place the slip back into the can. Repeat until 6 slips have been selected.

1st	2nd	3rd	4th	5th	6th

- c) Return all 6 slips to the can.

In an upcoming assignment, you'll use your sample to estimate the true population mean. For now, use the space below to manually prepare each of the items below. Use *StatCrunch* (or your calculator) to confirm your answers. **Show all work and carry calculations to 4 digits past the decimal point.**

- d) Prepare a dotplot



- e) Determine the sample mean
- f) Determine the sample median
- g) Fill-in the worksheet below:

x	deviation $(X - \bar{X})$	squared deviation $(X - \bar{X})^2$	x²
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- h) Compute the sample variance