Making Variance

Exercise 1- The length of desks versus the length of forearms

A. Desks (2 students)
   1) Use a 12-inch ruler to measure the length of the shorter side of every desk in the classroom.
   2) Record the measurements

B. Forearms (2 students)
   1) Use a 12-inch ruler to measure the lengths of all forearms in the room
   2) Record the measurements

Exercise 2- Pitching pennies

A. Line (≥3 students)
   1) Stand at least 15 feet from a chalk line drawn longitudinally on the floor in the classroom.
   2) Pitch pennies at the chalk line on the floor with the aim of getting them to land as close as possible to the line.
   3) Record all distances of pitched pennies from the line with a 12-inch ruler.
   4) Record as many distances as humanly possible in the time allotted.

B. Wall (≥3 students)
   1) Stand at least 15-feet from a wall in the classroom.
   2) Pitch pennies at the wall with the aim of getting them to land as close as possible to the wall.
   3) Record all distances of pitched pennies from the wall with a 12-inch ruler.
   4) Record as many distances as humanly possible in the time allotted.

Exercise 3- Random Sampling
(4 students; 2 per flask)
   1) Each student should take a foiled flask of beads. Do not peek inside! ;-) 
   2) Withdraw 5 beads.
   3) Record the number of black beads drawn, including "0," if none are observed.
   4) Put the drawn beads back in the flask, close, shake, and draw another 5 beads.
   5) Repeat the drawing/recording as many times as humanly possible in the time allotted.