

## Would a loon chick weighing 95 grams be in the top 2.5%?

79.587.588.589.291.684.582.182.385.189.884.084.888.288.282.989.889.294.188.091.191.887.087.788.085.494.491.386.385.786.0

## **Sampling Methods**

Simple random: each individual has an equal chance of being selected.

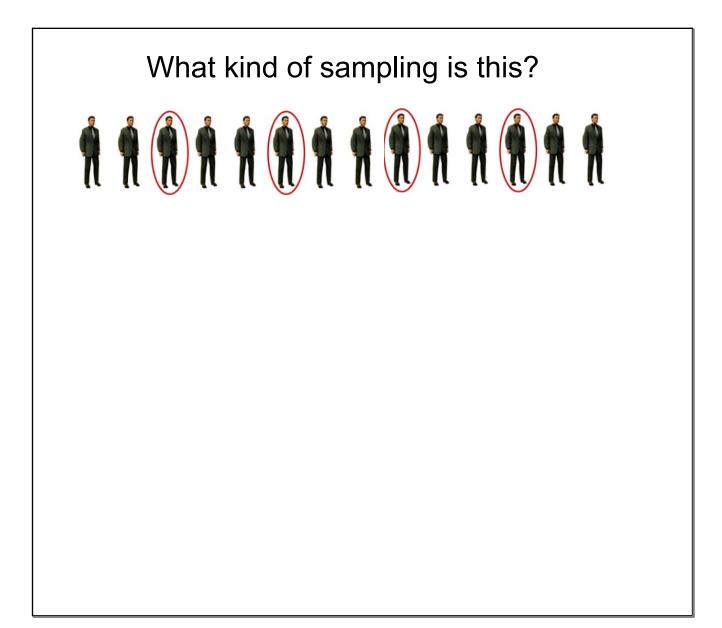
Self-selected: individuals volunteer to be in sample

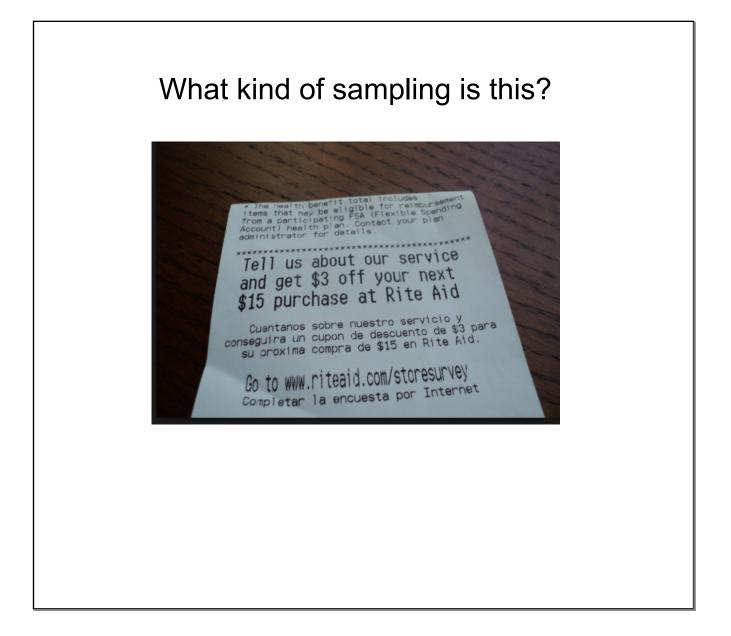
Convenience: individuals are selected based on accessibility

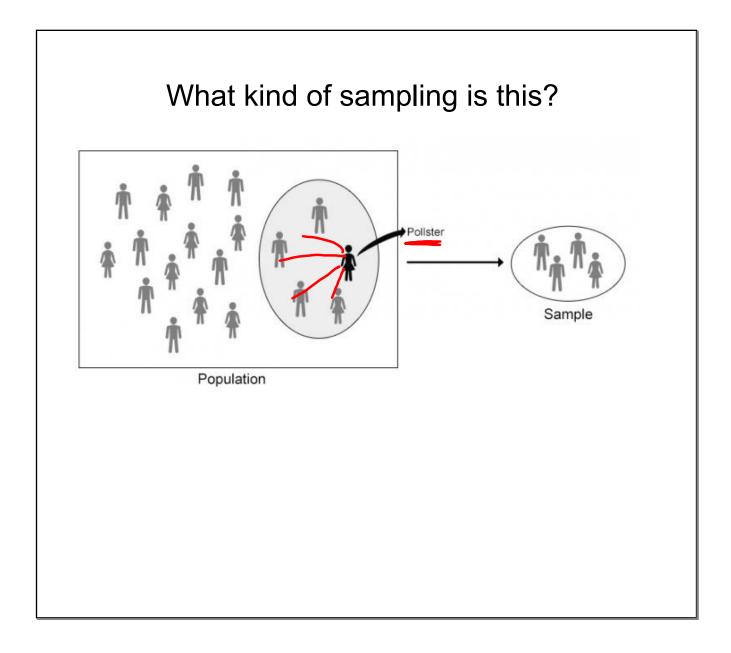
Systematic: Members of the sample are chosen according to a rule, such as every nth individual

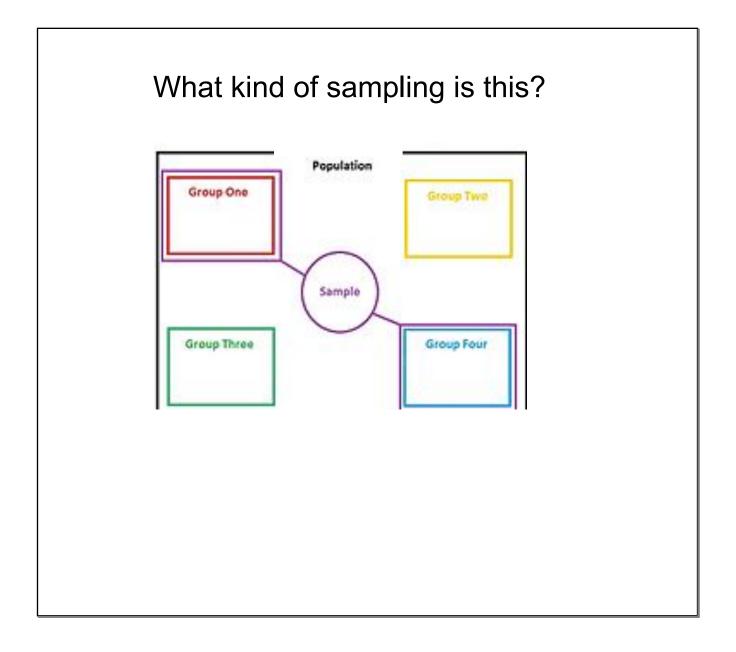
Stratified: population divided into groups and individuals from each group are selected

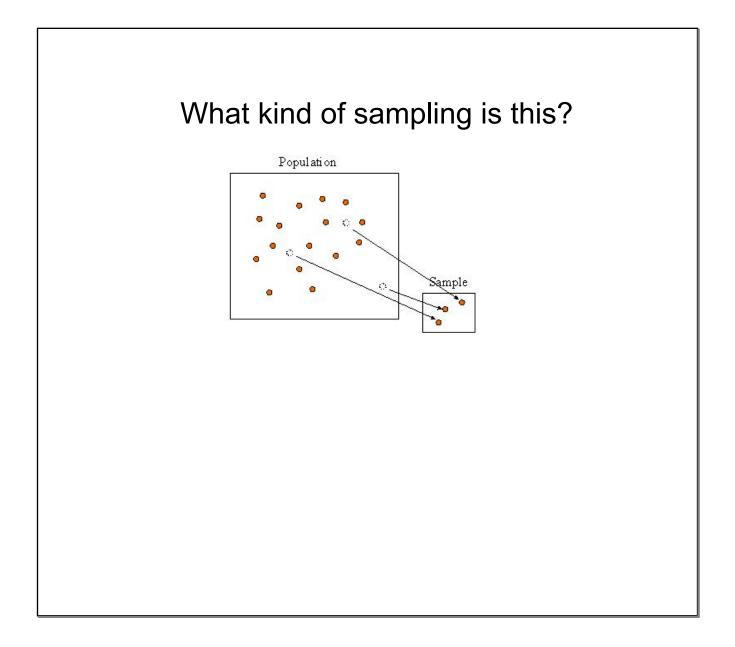
Cluster: population is divided into groups(some groups randomly selected), and either all the individuals in the groups are selected or just some of the individuals in the groups are selected.

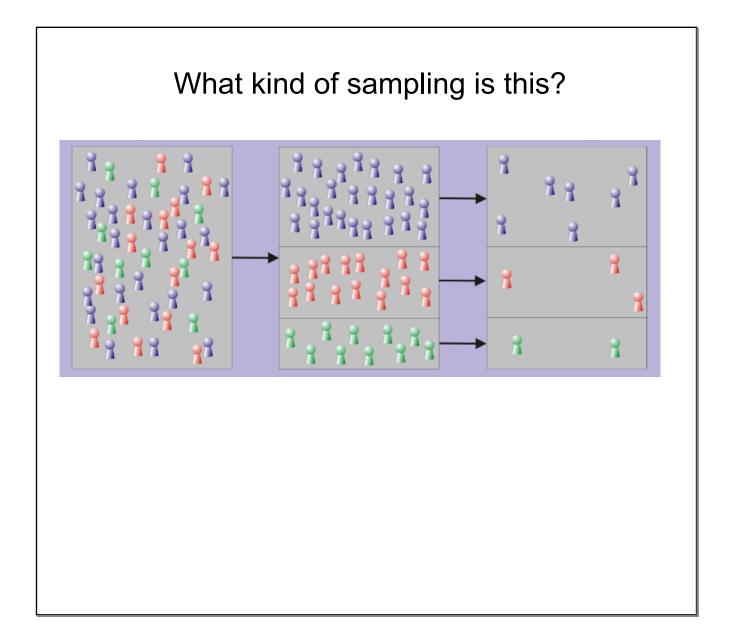












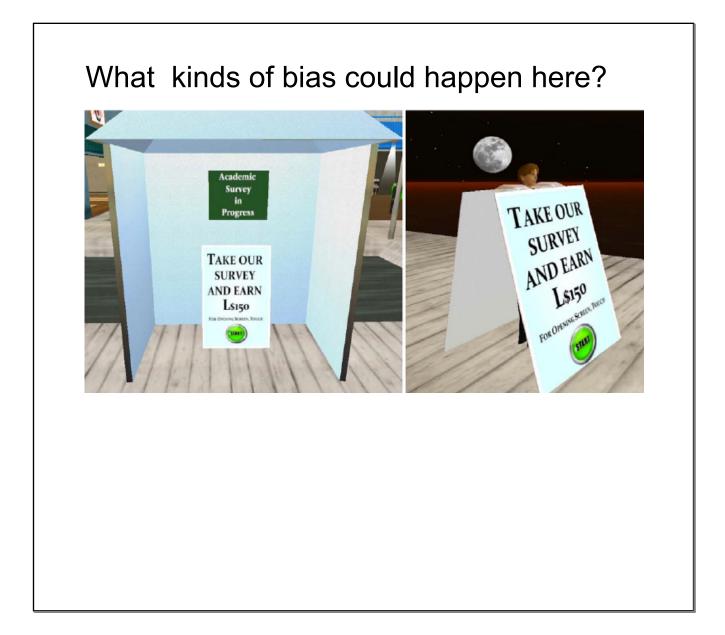
Other sources of bias:

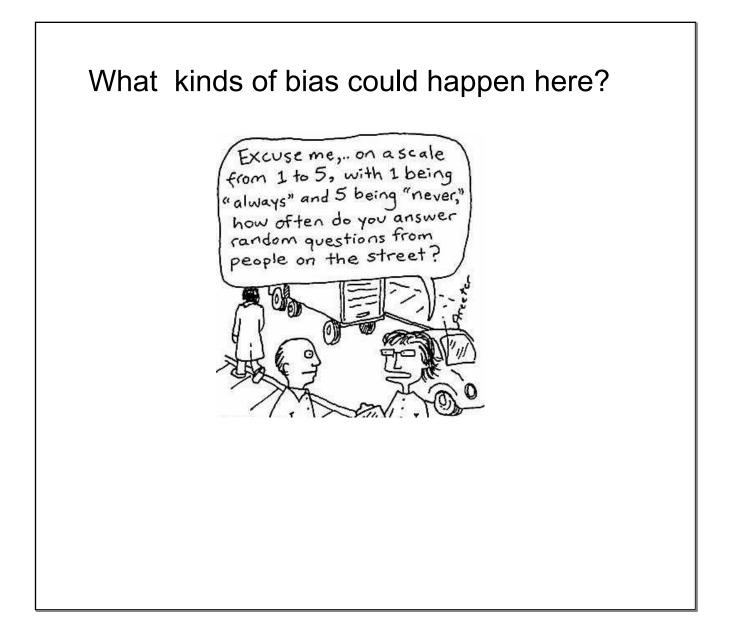
1. Nonresponse: subjects to not respond to the survey

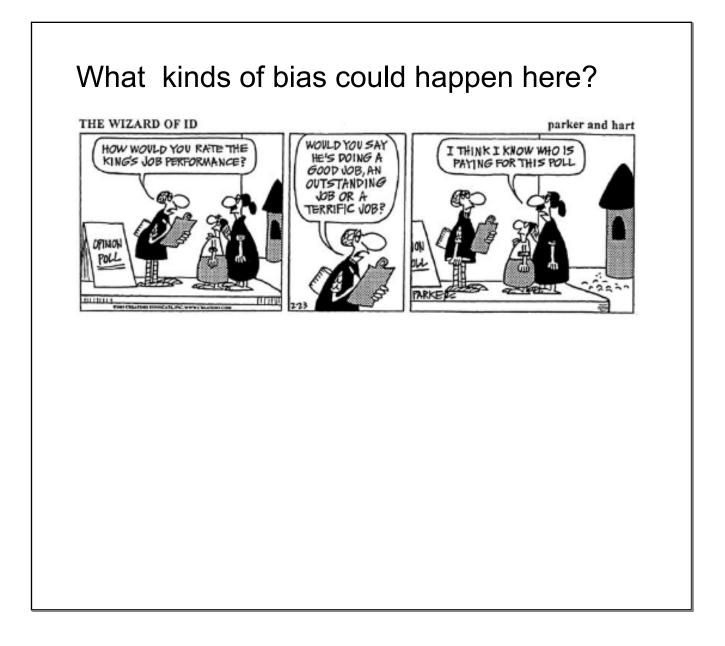
2. Undercoverage: a portion of the population with some commonality is excluded from the survey

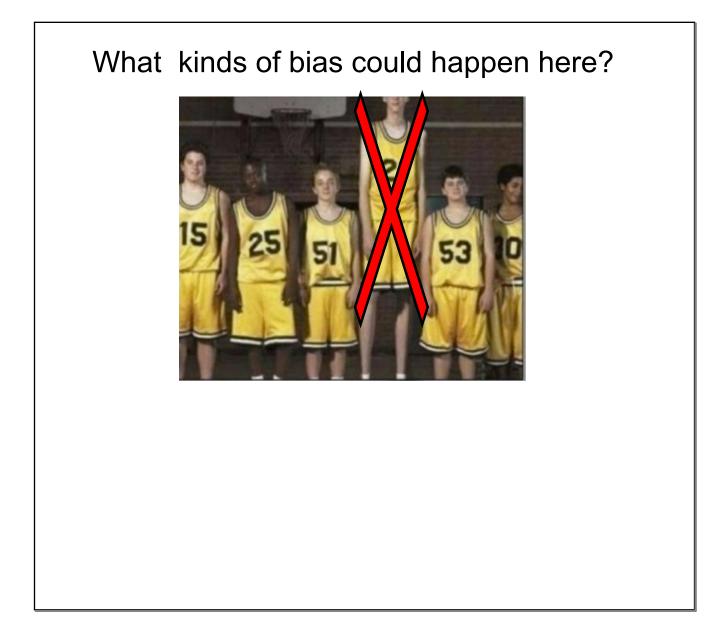
3. Voluntary response: the sample chooses itself by responding to a general appeal

4. Response bias: systematic difference between subject's response and the "truth" (i.e. lying)











Pull your crush sside
from everyone else. Asking
in front of someone else
puts on pressure and they
will most likely say no.

Identify the population, classify the sampling methods, and decide whether the sampling method could result in a biased sample.

The officials of the NFL want to know how the players feel about some proposed changes to the NFL rules. They decide to ask a sample of 100 players.

a. The officials choose the first 100 players who volunteer their opinions.

b. The officials randomly choose 3 or 4 players from each of the 32 teams.

c. The officials have a computer randomly generate a list of 100 players from a database of all players.

Identify the population, classify the sampling methods, and decide whether the sampling method could result in a biased sample.

Administrators at your school want to know if students think that more vegetarian items should be added to the lunch menu.

a. The administrators survey every 25th student who enters the cafeteria during the lunch period.

b. The administrators survey the first 50 students who get in the lunch line.

c. The administrators use a randomly generated list of 50 students from a master list of all students.

May 04, 2017

