

A Sample of Sampling Methods

For each situation, identify the sampling technique used
(simple random, cluster, stratified, convenience, voluntary response, or systematic):

- 1) Every fifth person boarding a plane is searched thoroughly. *systematic*
- 2) At a local community College, five math classes are randomly selected out of 20 and all of the students from each class are interviewed. *cluster*
- 3) A researcher randomly selects and interviews fifty male and fifty female teachers. *stratified (divided, then random)*
- 4) A researcher for an airline interviews all of the passengers on five randomly selected flights. *cluster*
- 5) Based on 12,500 responses from 42,000 surveys sent to its alumni, a major university estimated that the annual salary of its alumni was 92,500. *voluntary response*
- 6) A community college student interviews the first 100 students to enter the building to determine the percentage of students that own a car. *convenience*
- 7) A market researcher randomly selects 200 drivers under 35 years of age and 100 drivers over 35 years of age. *stratified*
- 8) All of the teachers from 85 randomly selected nation's middle schools were interviewed. *cluster*
- 9) To avoid working late, the quality control manager inspects the last 10 items produced that day. *convenience*
- 10) The names of 70 contestants are written on 70 cards, The cards are placed in a bag, and three names are picked from the bag. *simple random*
- 11) 32 sophomores, 35 juniors and 49 seniors are randomly selected from 230 sophomores, 280 juniors, 577 seniors at a certain high school. *stratified (divided, then random)*
- 12) To ensure customer satisfaction, every 35th phone call received by customer service will be monitored. *systematic*
- 13) Calling randomly generated telephone numbers, a study asked 855 U.S. adults which medical conditions could be prevented by their diet. *simple random*
- 14) A pregnancy study in Chicago, randomly selected 25 communities from the metropolitan area, then interviewed all pregnant women in these communities. *cluster*