

MAT 100 Homework #5 Key

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1a. The population is the whole set you want to know about.
The sample is a subset of the population to get an idea of what the population is like

b. Census asks everyone in the population (measures)
Survey asks just a sample

c. parameter is a characteristic of the population
Statistic is the (same) characteristic of the sample

2. answers will vary

under coverage - does not get all aspects of the population
(missing some points of view)

Can occur w/ a convenience sample

nonresponse - biased sample result from those selected for

Survey refusing to answer

telephone survey when there is no answer

voluntary response - only those w/ strong feelings respond

(make extra effort) to respond

mail-in survey

3. a. systematic sample

b. simple random

c. cluster sample

d. convenience sample

e. stratified sample

4. The sample is not random; people who knew you or found in one location may not represent the whole population

5. People have caller ID and don't answer phone if # unrecognized.
Not that many people have landlines anymore.