

Name: _____

Representative Samples

Samples that are **representative** of a population accurately reflect the population. Two of the most important factors that make a sample representative are **sample size** and **sampling method**.

- Larger samples tend to be representative. When samples are too small to gather sufficient data, they are unlikely to be representative.
- Random samples tend to be representative. When samples are biased, they are unlikely to be representative.

If the sample is unlikely to be representative, check one or both boxes to tell why.

If the sample is likely to be representative, check no boxes.

| | Sample Size | Sampling Method |
|--|-------------|-----------------|
| | | |



Preview

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| | | |
|---|--|--|
| 5. Wenjie's school has 983 students. He picks 8 student ID numbers and records heights to find an average. | | |
| 6. An economic census collects the income data from every working adult in a city. | | |
| 7. To estimate the health of fish in Lake Superior, Crue examines the 5 fish he finds nearest to the shore. | | |
| 8. Iris buys a bag of 400 gumballs to fill a machine. She uses the first 100 poured to guess the ratio of colors. | | |
| 9. Grady uses players who rank 50th percentile or above to see how many hours most people play. | | |
| 10. Raelyn wonders what pets girls usually prefer. She asks three random girls on the street. | | |

ANSWER KEY

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If the sample is *unlikely* to be representative, check one or both boxes to tell why.

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