

Algebra II

Sampling Bias

Name _____

Hour _____

You are doing a survey asking students if they think boy's sports get more priority than girl's sports. There are 600 girls and 500 boys in your school.

- 1) a) How would you conduct a survey that involves undercoverage bias? Remember, your survey should appear to be fair, so don't make it too obvious.

Don't include all groups.

Ex. survey people at a boys sporting event

- b) How would you set up a sample to conduct a fair survey not involving undercoverage bias?

Poll every 5th student in 5 random classes

- 2) a) Write a survey question that would include wording bias that would favor girls in this situation. Remember, your survey should appear to be fair, so don't make it too obvious.

Do you think it's fair that girls sports are such a low priority?

- b) Write a survey question to conduct a fair survey asking about this issue.

Do you care more about boys sports or girls sports.

- 3) a) Explain a situation where you could conduct this survey that would involve convenience sampling.

Ask everyone at your lunch table

- b) How would you conduct this survey to avoid convenience sampling?

Ask every 10th person at each lunch table

- 4) a) How would you conduct a survey that includes voluntary response bias? Remember, your survey should appear to be fair, so don't make it too obvious.

Pass out survey questions and ask for the responses at a different time/location

- b) How would you conduct this survey to avoid voluntary response bias?

Pass out survey questions and collect after 5 minutes.

- 5) a) How would you conduct a survey that includes nonresponse bias? Remember, your survey should appear to be fair, so don't make it too obvious.

Survey question could have an option to not participate.

- b) How would you conduct this survey to avoid nonresponse bias?

Make all questions mandatory