Sampling, Surveys & Margin of Error · 1

A company splits its workers into full-time and part-time, then randomly chooses 30 workers from each group. Which sampling method is used? (A) stratified random sample (B) systematic sample (C) convenience sample (D) cluster sample

Sampling, Surveys & Margin of Error · 2

A random sample of 2,500 people is surveyed. Estimate the margin of error.

Sampling, Surveys & Margin of Error · 3

Of 800 people chosen at random for a phone interview, 550 refuse to take part. Which kind of bias is most likely? (A) response bias (B) nonresponse bias (C) undercoverage (D) voluntary response bias

Sampling, Surveys & Margin of Error · 4

In a random sample of 100 students, 71% want a longer lunch break. Use the margin of error to give an interval for the percent of all students who want a longer lunch break.

Sampling, Surveys & Margin of Error · 5

In a random sample of 625 residents, 71% want a new library. Use the margin of error to give an interval for the percent of all residents who want a new library.

Sampling, Surveys & Margin of Error · 6

In a random sample of 400 adults, 29% read the news every day. Use the margin of error to give an interval for the percent of all adults who read the news every day.

Sampling, Surveys & Margin of Error · 7

In a random sample of 625 students, 56% want a longer lunch break. Use the margin of error to give an interval for the percent of all students who want a longer lunch break.

Sampling, Surveys & Margin of Error · 8

A random sample of 1,600 people is surveyed. Estimate the margin of error.

Sampling, Surveys & Margin of Error · 2

ANSWER

2%

Sampling, Surveys & Margin of Error · 1

ANSWER

A

Sampling, Surveys & Margin of Error · 4

ANSWER

61% to 81%

Sampling, Surveys & Margin of Error · 3

ANSWER

B

Sampling, Surveys & Margin of Error · 6

ANSWER

24% to 34%

Sampling, Surveys & Margin of Error · 5

ANSWER

67% to 75%

Sampling, Surveys & Margin of Error · 8

ANSWER

2.5%

Sampling, Surveys & Margin of Error · 7

ANSWER

52% to 60%

Sampling, Surveys & Margin of Error · 9

A city numbers every registered voter and uses a random number generator to choose 300 of them. Which sampling method is used? (A) simple random sample (B) systematic sample (C) stratified random sample (D) convenience sample

Sampling, Surveys & Margin of Error · 10

A random sample of 400 people is surveyed. Estimate the margin of error.

Sampling, Surveys & Margin of Error · 11

A survey asks, "Do you support the wasteful plan to build a new city hall?" Which kind of bias is most likely? (A) undercoverage (B) voluntary response bias (C) nonresponse bias (D) response bias

Sampling, Surveys & Margin of Error · 12

In a random sample of 100 teens, 43% have a part-time job. Use the margin of error to give an interval for the percent of all teens who have a part-time job.

Sampling, Surveys & Margin of Error · 13

About how many people must be surveyed at random for a margin of error of 2%?

Sampling, Surveys & Margin of Error · 14

A store manager surveys every 10th customer who walks through the door. Which sampling method is used? (A) cluster sample (B) convenience sample (C) systematic sample (D) simple random sample

Sampling, Surveys & Margin of Error · 15

In a random sample of 400 adults, 44% read the news every day. Use the margin of error to give an interval for the percent of all adults who read the news every day.

Sampling, Surveys & Margin of Error · 16

In a random sample of 625 adults, 35% read the news every day. Use the margin of error to give an interval for the percent of all adults who read the news every day.

Sampling, Surveys & Margin of Error · 10

ANSWER

5%

Sampling, Surveys & Margin of Error · 9

ANSWER

A

Sampling, Surveys & Margin of Error · 12

ANSWER

33% to 53%

Sampling, Surveys & Margin of Error · 11

ANSWER

D

Sampling, Surveys & Margin of Error · 14

ANSWER

C

Sampling, Surveys & Margin of Error · 13

ANSWER

2500

Sampling, Surveys & Margin of Error · 16

ANSWER

31% to 39%

Sampling, Surveys & Margin of Error · 15

ANSWER

39% to 49%

A city numbers every registered voter and uses a random number generator to choose 300 of them. Which sampling method is used? (A) simple random sample (B) convenience sample (C) systematic sample (D) cluster sample

A random sample of 625 people is surveyed. Estimate the margin of error.

A TV show asks viewers to text in their vote on a new tax. Which kind of bias is most likely? (A) nonresponse bias (B) voluntary response bias (C) undercoverage (D) response bias

In a random sample of 625 customers, 60% are happy with their service. Use the margin of error to give an interval for the percent of all customers who are happy with their service.

About how many people must be surveyed at random for a margin of error of 4%?

A city randomly selects 6 neighborhoods and interviews every household in them. Which sampling method is used? (A) stratified random sample (B) convenience sample (C) systematic sample (D) cluster sample

Only 15% of randomly chosen customers fill out an emailed feedback form. Which kind of bias is most likely? (A) undercoverage (B) nonresponse bias (C) voluntary response bias (D) response bias

A town poll about park improvements is mailed only to homeowners, so renters are left out. Which kind of bias is most likely? (A) voluntary response bias (B) nonresponse bias (C) response bias (D) undercoverage

Sampling, Surveys & Margin of Error · 18

ANSWER

4%

Sampling, Surveys & Margin of Error · 17

ANSWER

A

Sampling, Surveys & Margin of Error · 20

ANSWER

56% to 64%

Sampling, Surveys & Margin of Error · 19

ANSWER

B

Sampling, Surveys & Margin of Error · 22

ANSWER

D

Sampling, Surveys & Margin of Error · 21

ANSWER

625

Sampling, Surveys & Margin of Error · 24

ANSWER

D

Sampling, Surveys & Margin of Error · 23

ANSWER

B