Task card 1 Sampling, Surveys & Margin of Erro...

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

Task card 2 Sampling, Surveys & Margin of Erro...

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

Task card 3 Sampling, Surveys & Margin of Erro...

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

Task card 4 Sampling, Surveys & Margin of Erro...

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.

Task card 5 Sampling, Surveys & Margin of Erro...

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.

Task card 6 Sampling, Surveys & Margin of Erro...

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.

Task card 7 Sampling, Surveys & Margin of Erro...

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.

Task card 8 Sampling, Surveys & Margin of Erro...

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

Task card 9 Sampling, Surveys & Margin of Erro...

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

Task card 10 Sampling, Surveys & Margin of Erro...

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

Task card 11 Sampling, Surveys & Margin of Erro...

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

Task card 12 Sampling, Surveys & Margin of Erro...

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.

Task card 13 Sampling, Surveys & Margin of Erro...

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

Task card 14 Sampling, Surveys & Margin of Erro...

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

Task card 15 Sampling, Surveys & Margin of Erro...

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.

Task card 16 Sampling, Surveys & Margin of Erro...

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.

Task card 17 Sampling, Surveys & Margin of Erro...

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

Task card 18 Sampling, Surveys & Margin of Erro...

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

Task card 19 Sampling, Surveys & Margin of Erro...

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

Task card 20 Sampling, Surveys & Margin of Erro...

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.

Task card 21 Sampling, Surveys & Margin of Erro...

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

Task card 22 Sampling, Surveys & Margin of Erro...

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

Task card 23 Sampling, Surveys & Margin of Erro...

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

Task card 24 Sampling, Surveys & Margin of Erro...

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 Task Cards

Recording sheet · Grade 11 · Solve each problem. For lettered choices, write the letter. Use $E \approx 1 \div \sqrt{n}$ for the margin of error, written as a percent rounded to the nearest tenth. Write intervals like 47% to 53%.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Sampling, Surveys & Margin of Error Task Cards: Answer Key

Grade 11 · Easy

The answers online

1. A	**2.** 2%	**3.** B
4. 61% to 81%	**5.** 67% to 75%	**6.** 24% to 34%
7. 52% to 60%	**8.** 2.5%	**9.** A
10. 5%	**11.** D	**12.** 33% to 53%
13. 2500	**14.** C	**15.** 39% to 49%
16. 31% to 39%	**17.** A	**18.** 4%
19. B	**20.** 56% to 64%	**21.** 625
22. D	**23.** B	**24.** D