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) systematic sample (B) cluster sample (C) stratified random sample (D) convenience sample

Task card 2 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) voluntary response bias (B) undercoverage (C) response bias (D) nonresponse bias

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

A random sample of 750 people is surveyed. Estimate the margin of error.

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

In a random sample of 1,600 residents, 75% 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 5 Sampling, Surveys & Margin of Erro...

About how many people must be surveyed at random for a margin of error of 10%?

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

In a random poll of 400 voters, 51% support Measure A. Using $E \approx 1 \div \sqrt{n}$, can the pollster be confident that a majority (more than 50%) of all voters support it? Answer yes or no.

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

A radio host asks listeners to call in and say whether they support a new stadium. Which kind of bias is most likely? (A) nonresponse bias (B) response bias (C) undercoverage (D) voluntary response bias

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

A random sample of 900 people is surveyed. Estimate the margin of error.

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

A librarian picks every 20th name on an alphabetical list of members, starting at a random name. Which sampling method is used? (A) convenience sample (B) systematic sample (C) simple random sample (D) cluster sample

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

Surveys are mailed to 1,000 randomly chosen households, but only 120 are returned. Which kind of bias is most likely? (A) nonresponse bias (B) undercoverage (C) response bias (D) voluntary response bias

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

In a random sample of 625 residents, 70% 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 12 Sampling, Surveys & Margin of Erro...

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

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

In a random poll of 400 voters, 61% support Measure A. Using $E \approx 1 \div \sqrt{n}$, can the pollster be confident that a majority (more than 50%) of all voters support it? Answer yes or no.

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

A teacher asks each student face to face whether they cheated on the last test. Which kind of bias is most likely? (A) response bias (B) nonresponse bias (C) undercoverage (D) voluntary response bias

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

A random sample of 1,500 people is surveyed. Estimate the margin of error.

Task card 16 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) stratified random sample (C) systematic sample (D) convenience sample

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

A survey asks, "Don't you agree that the unfair new curfew should be removed?" Which kind of bias is most likely? (A) nonresponse bias (B) response bias (C) voluntary response bias (D) undercoverage

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

In a random sample of 625 customers, 66% 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 19 Sampling, Surveys & Margin of Erro...

In a random poll of 2,500 voters, 54% support Measure A. Using $E \approx 1 \div \sqrt{n}$, can the pollster be confident that a majority (more than 50%) of all voters support it? Answer yes or no.

Task card 20 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) response bias (B) voluntary response bias (C) nonresponse bias (D) undercoverage

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

A factory numbers all 2,000 parts made today and draws 40 numbers from a hat to choose parts to inspect. Which sampling method is used? (A) simple random sample (B) cluster sample (C) systematic sample (D) convenience sample

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

A survey about internet access is done only online, so people without internet cannot answer. Which kind of bias is most likely? (A) response bias (B) nonresponse bias (C) voluntary response bias (D) undercoverage

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

A random sample of 1,000 people is surveyed. Estimate the margin of error.

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

In a random sample of 625 adults, 34% 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 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 · Hard

The answers online

1. C	**2.** D	**3.** 3.7%
4. 72.5% to 77.5%	**5.** 100	**6.** no
7. D	**8.** 3.3%	**9.** B
10. A	**11.** 66% to 74%	**12.** 2500
13. yes	**14.** A	**15.** 2.6%
16. A	**17.** B	**18.** 62% to 70%
19. yes	**20.** D	**21.** A
22. D	**23.** 3.2%	**24.** 30% to 38%