Task card 1 Random Samples & Making Prediction...

To find students' favorite subject, a student surveys only her friends. Is the sample biased or random?

Task card 2 Random Samples & Making Prediction...

In a random sample of 40 students, 29 walk to school. There are 480 students at a school. Predict how many of them walk to school.

Task card 3 Random Samples & Making Prediction...

To learn which pizza topping town residents like best, a reporter asks customers leaving a pepperoni pizza shop. Is the sample biased or random?

Task card 4 Random Samples & Making Prediction...

In a random sample of 100 people, 32 have a pet cat. What percent of the sample have a pet cat?

Task card 5 Random Samples & Making Prediction...

In a random sample of 80 phones, 18 are defective. There are 1840 phones made at a factory. Predict how many of them are defective.

Task card 6 Random Samples & Making Prediction...

Two random samples of 40 students were taken from a school of 1280 students. In the first sample, 22 students ride the bus. In the second, 26 ride the bus. Using the average of the two samples, predict how many students in the school ride the bus.

Task card 7 Random Samples & Making Prediction...

To find how many people in a city own a pet, a volunteer surveys people at a dog park. Is the sample biased or random?

Task card 8 Random Samples & Making Prediction...

In a random sample of 25 phones, 14 are defective. There are 400 phones made at a factory. Predict how many of them are defective.

Task card 9 Random Samples & Making Prediction...

To find the favorite sport of students at a school, Ana asks the players on the soccer team. Is the sample biased or random?

Task card 10 Random Samples & Making Prediction...

In a random sample of 100 phones, 11 are defective. What percent of the sample are defective?

Task card 11 Random Samples & Making Prediction...

In a random sample of 80 seventh graders, 44 play an instrument. There are 1760 seventh graders in a district. Predict how many of them play an instrument.

Task card 12 Random Samples & Making Prediction...

Two random samples of 40 students were taken from a school of 400 students. In the first sample, 10 students ride the bus. In the second, 15 ride the bus. Using the average of the two samples, predict how many students in the school ride the bus.

Task card 13 Random Samples & Making Prediction...

To find the most popular book genre, a librarian asks the members of the mystery book club. Is the sample biased or random?

Task card 14 Random Samples & Making Prediction...

In a random sample of 50 fish, 36 are trout. There are 950 fish in a lake. Predict how many of them are trout.

Task card 15 Random Samples & Making Prediction...

In a random sample of 50 voters, 6 support a new park. What percent of the sample support a new park?

Task card 16 Random Samples & Making Prediction...

In a random sample of 20 seventh graders, 5 play an instrument. There are 320 seventh graders in a district. Predict how many of them play an instrument.

Task card 17 Random Samples & Making Prediction...

Two random samples of 25 students were taken from a school of 400 students. In the first sample, 4 students ride the bus. In the second, 3 ride the bus. Using the average of the two samples, predict how many students in the school ride the bus.

Task card 18 Random Samples & Making Prediction...

To learn how many hours students sleep, a counselor assigns every student a number and uses a random number generator to pick 50 of them. Is the sample biased or random?

Task card 19 Random Samples & Making Prediction...

In a random sample of 20 fish, 7 are trout. There are 580 fish in a lake. Predict how many of them are trout.

Task card 20 Random Samples & Making Prediction...

In a random sample of 25 seventh graders, 12 play an instrument. What percent of the sample play an instrument?

Task card 21 Random Samples & Making Prediction...

In a random sample of 25 voters, 14 support a new park. There are 550 voters in a city. Predict how many of them support a new park.

Task card 22 Random Samples & Making Prediction...

Two random samples of 20 students were taken from a school of 720 students. In the first sample, 12 students ride the bus. In the second, 17 ride the bus. Using the average of the two samples, predict how many students in the school ride the bus.

Task card 23 Random Samples & Making Prediction...

To find out if people want a new skate park, a city asks only people who come to a skateboarding event. Is the sample biased or random?

Task card 24 Random Samples & Making Prediction...

In a random sample of 80 phones, 11 are defective. There are 2480 phones made at a factory. Predict how many of them are defective.

Random Samples & Making Predictions Task Cards

Recording sheet · Grade 7 · Answer each question. For biased-or-random questions, answer Biased or Random.

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

Random Samples & Making Predictions Task Cards: Answer Key

Grade 7 · Medium

The answers online

1. Biased	**2.** 348	**3.** Biased
4. 32%	**5.** 414	**6.** 768
7. Biased	**8.** 224	**9.** Biased
10. 11%	**11.** 968	**12.** 125
13. Biased	**14.** 684	**15.** 12%
16. 80	**17.** 56	**18.** Random
19. 203	**20.** 48%	**21.** 308
22. 522	**23.** Biased	**24.** 341