Task card 1 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 2 Random Samples & Making Prediction...

In a random sample of 40 people, 3 have a pet cat. There are 760 people in a town. Predict how many of them have a pet cat.

Task card 3 Random Samples & Making Prediction...

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

Task card 4 Random Samples & Making Prediction...

In a random sample of 20 voters, 10 support a new park. What percent of the sample support a new park?

Task card 5 Random Samples & Making Prediction...

In a random sample of 25 phones, 16 are defective. There are 375 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 1040 students. In the first sample, 20 students ride the bus. In the second, 34 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...

In a random sample of 50 voters, 17 support a new park. There are 1400 voters in a city. Predict how many of them support a new park.

Task card 8 Random Samples & Making Prediction...

In a random sample of 50 fish, 23 are trout. What percent of the sample are trout?

Task card 9 Random Samples & Making Prediction...

In a random sample of 20 voters, 19 support a new park. There are 940 voters in a city. Predict how many of them support a new park.

Task card 10 Random Samples & Making Prediction...

Two random samples of 20 students were taken from a school of 520 students. In the first sample, 8 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 11 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 12 Random Samples & Making Prediction...

In a random sample of 20 students, 4 walk to school. There are 680 students at a school. Predict how many of them walk to school.

Task card 13 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 14 Random Samples & Making Prediction...

In a random sample of 100 seventh graders, 20 play an instrument. What percent of the sample play an instrument?

Task card 15 Random Samples & Making Prediction...

In a random sample of 40 voters, 17 support a new park. There are 1480 voters in a city. Predict how many of them support a new park.

Task card 16 Random Samples & Making Prediction...

Two random samples of 50 students were taken from a school of 1900 students. In the first sample, 35 students ride the bus. In the second, 4 ride the bus. Using the average of the two samples, predict how many students in the school ride the bus.

Task card 17 Random Samples & Making Prediction...

In a random sample of 80 students, 43 walk to school. There are 3360 students at a school. Predict how many of them walk to school.

Task card 18 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 19 Random Samples & Making Prediction...

In a random sample of 25 fish, 8 are trout. What percent of the sample are trout?

Task card 20 Random Samples & Making Prediction...

In a random sample of 50 seventh graders, 22 play an instrument. There are 1100 seventh graders in a district. Predict how many of them play an instrument.

Task card 21 Random Samples & Making Prediction...

Two random samples of 20 students were taken from a school of 200 students. In the first sample, 13 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 22 Random Samples & Making Prediction...

To find out how students get to school, a teacher asks the students waiting at the bus stop. Is the sample biased or random?

Task card 23 Random Samples & Making Prediction...

In a random sample of 25 people, 4 have a pet cat. There are 425 people in a town. Predict how many of them have a pet cat.

Task card 24 Random Samples & Making Prediction...

In a random sample of 50 phones, 17 are defective. What percent of the sample 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 · Hard

The answers online

1. Biased	**2.** 57	**3.** Biased
4. 50%	**5.** 240	**6.** 702
7. 476	**8.** 46%	**9.** 893
10. 325	**11.** Biased	**12.** 136
13. Random	**14.** 20%	**15.** 629
16. 741	**17.** 1806	**18.** Biased
19. 32%	**20.** 484	**21.** 80
22. Biased	**23.** 68	**24.** 34%