Random Samples & Making Predictions · 1

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

Random Samples & Making Predictions · 2

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.

Random Samples & Making Predictions · 3

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

Random Samples & Making Predictions · 4

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

Random Samples & Making Predictions · 5

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.

Random Samples & Making Predictions · 6

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.

Random Samples & Making Predictions · 7

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.

Random Samples & Making Predictions · 8

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

Random Samples & Making Predictions · 2

ANSWER

57

Random Samples & Making Predictions · 1

ANSWER

Biased

Random Samples & Making Predictions · 4

ANSWER

50%

Random Samples & Making Predictions · 3

ANSWER

Biased

Random Samples & Making Predictions · 6

ANSWER

702

Random Samples & Making Predictions · 5

ANSWER

240

Random Samples & Making Predictions · 8

ANSWER

46%

Random Samples & Making Predictions · 7

ANSWER

476

Random Samples & Making Predictions · 9

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.

Random Samples & Making Predictions · 10

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.

Random Samples & Making Predictions · 11

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?

Random Samples & Making Predictions · 12

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.

Random Samples & Making Predictions · 13

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?

Random Samples & Making Predictions · 14

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

Random Samples & Making Predictions · 15

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.

Random Samples & Making Predictions · 16

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.

Random Samples & Making Predictions · 10

ANSWER

325

Random Samples & Making Predictions · 9

ANSWER

893

Random Samples & Making Predictions · 12

ANSWER

136

Random Samples & Making Predictions · 11

ANSWER

Biased

Random Samples & Making Predictions · 14

ANSWER

20%

Random Samples & Making Predictions · 13

ANSWER

Random

Random Samples & Making Predictions · 16

ANSWER

741

Random Samples & Making Predictions · 15

ANSWER

629

Random Samples & Making Predictions · 17

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.

Random Samples & Making Predictions · 18

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?

Random Samples & Making Predictions · 19

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

Random Samples & Making Predictions · 20

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.

Random Samples & Making Predictions · 21

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.

Random Samples & Making Predictions · 22

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

Random Samples & Making Predictions · 23

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.

Random Samples & Making Predictions · 24

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

Random Samples & Making Predictions · 18

ANSWER

Biased

Random Samples & Making Predictions · 17

ANSWER

1806

Random Samples & Making Predictions · 20

ANSWER

484

Random Samples & Making Predictions · 19

ANSWER

32%

Random Samples & Making Predictions · 22

ANSWER

Biased

Random Samples & Making Predictions · 21

ANSWER

80

Random Samples & Making Predictions · 24

ANSWER

34%

Random Samples & Making Predictions · 23

ANSWER

68